

Appendix B: SAR Measurement results Plots

Plot	Frequency/Mode	Testing Position and Channel	Test Date
1	GSM850	Left Cheek Middle	2019/04/16
2	GSM850/GPRS4Tx	Body Back, Middle ,10mm	2019/04/16
3	GSM1900	Left Cheek Middle	2019/04/18
4	GSM1900/GPRS4Tx	Body Back Middle ,10mm	2019/04/18
5	GSM1900/GPRS4Tx	Edge C, Middle ,10mm	2019/04/18
6	WCDMA1900	Right Cheek Middle	2019/04/18
7	WCDMA1900	Body Back, Middle ,10mm	2019/04/18
8	WCDMA1900	Edge C, Middle ,10mm	2019/04/18
9	WCDMA1700	Left Cheek Middle	2019/04/17
10	WCDMA1700	Body Back, Middle ,10mm	2019/04/17
11	WCDMA850	Right Cheek Middle	2019/04/16
12	WCDMA850	Body Back, Middle ,10mm	2019/04/16
13	LTE Band2	Right Cheek Middle	2019/04/18
14	LTE Band2	Body Face, Middle ,10mm	2019/04/18
15	LTE Band2	Edge C, Middle ,10mm	2019/04/18
16	LTE Band4	Right Cheek Middle	2019/04/17
17	LTE Band4	Body Back, Middle ,10mm	2019/04/17
18	LTE Band5	Right Cheek Middle	2019/04/16
19	LTE Band5	Body Back, Middle,10mm	2019/04/16
20	LTE Band7	Left Cheek Middle	2019/04/20
21	LTE Band7	Body Back, Middle ,10mm	2019/04/20
22	LTE Band12	Right Cheek Middle	2019/04/15
23	LTE Band12	Body Back, Middle ,10mm	2019/04/15
24	LTE Band66	Right Cheek Middle	2019/04/17
25	LTE Band66	Body Back, Middle ,10mm	2019/04/17
26	LTE Band66	Edge C, Middle ,10mm	2019/04/17
27	WIFI 2.4G 802.11b	Left Cheek Middle	2019/04/19
28	WIFI 2.4G 802.11b	Body Back, Middle ,10mm	2019/04/19
29	BT 3.0 GFCk	Left Cheek Middle	2019/04/20
30	BT 3.0 GFCk	Body Back, Middle ,10mm	2019/04/20
31	WIFI 5G 802.11ac	Left Cheek Middle	2019/04/21
32	WIFI 5G 802.11ac	Body Back, Middle ,10mm	2019/04/21
33	WIFI 5G 802.11ac	Left Cheek Middle	2019/04/22
34	WIFI 5G 802.11ac	Body Back, Middle ,10mm	2019/04/22
35	LTE Band7 CA	Left Cheek Middle	2019/04/30
36	LTE Band7 CA	Body Back, Middle ,10mm	2019/04/30
37	LTE Band7 CA	Edge C, Middle ,10mm	2019/04/30

Plot 1: GSM850, Left Cheek, Middle

Type: Phone measurement

Date of measurement: 04/16/2019

Measurement duration: 22 minutes 11 seconds

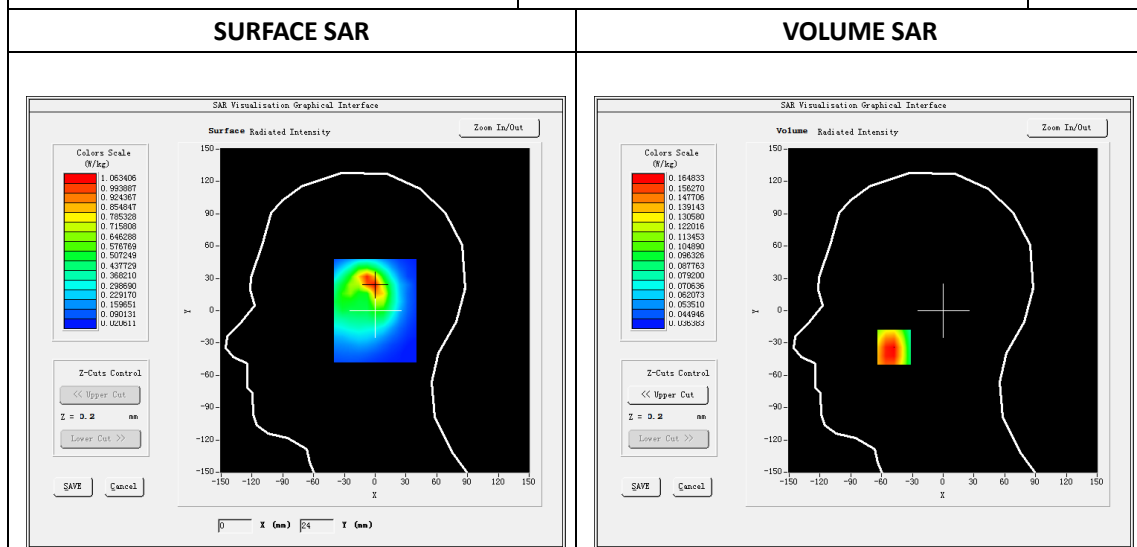
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Left Cheek
Band	GSM850
Channels	190
Signal	GSM (Duty cycle: 1:8.3)

B. SAR Measurement Results

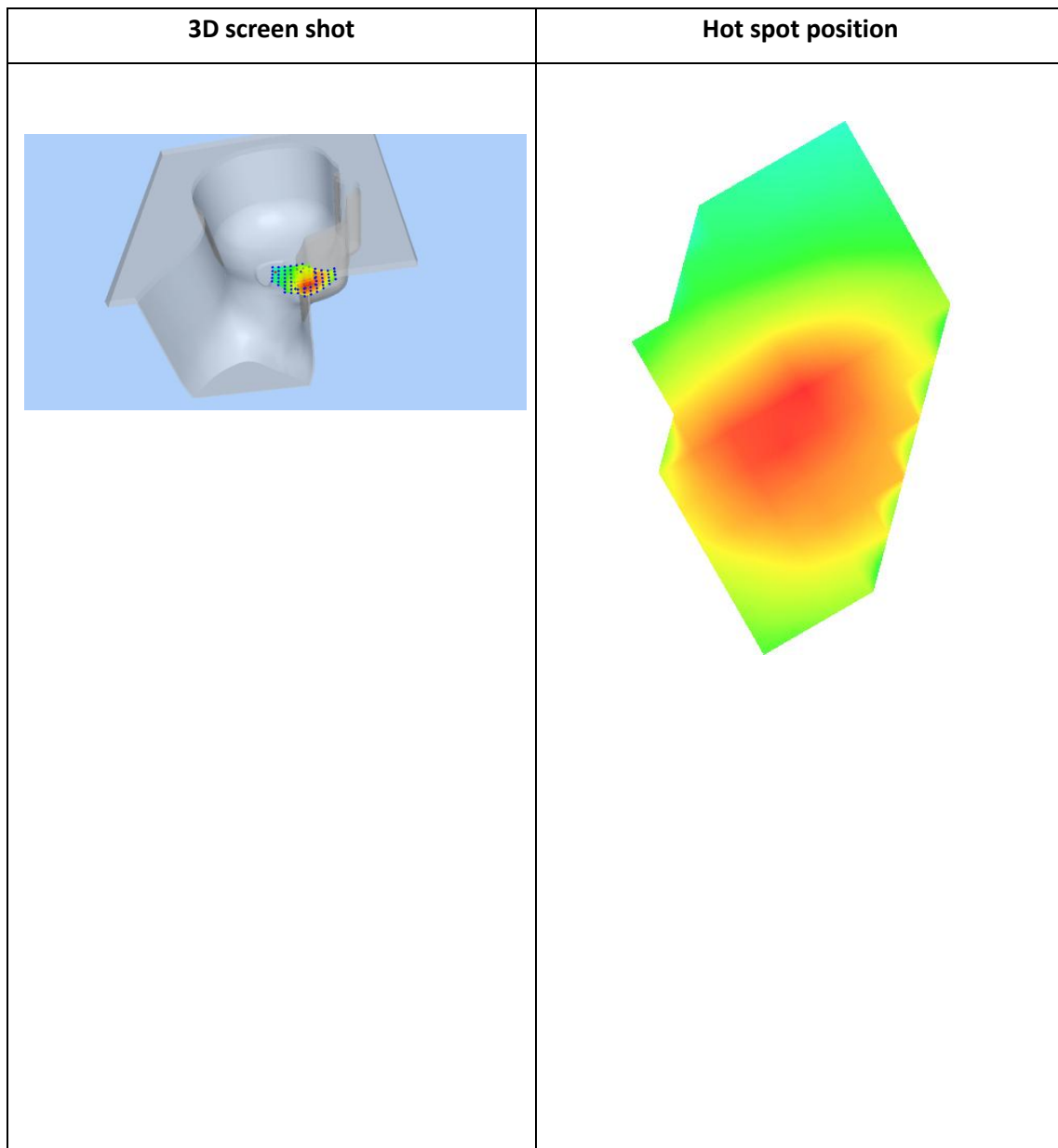
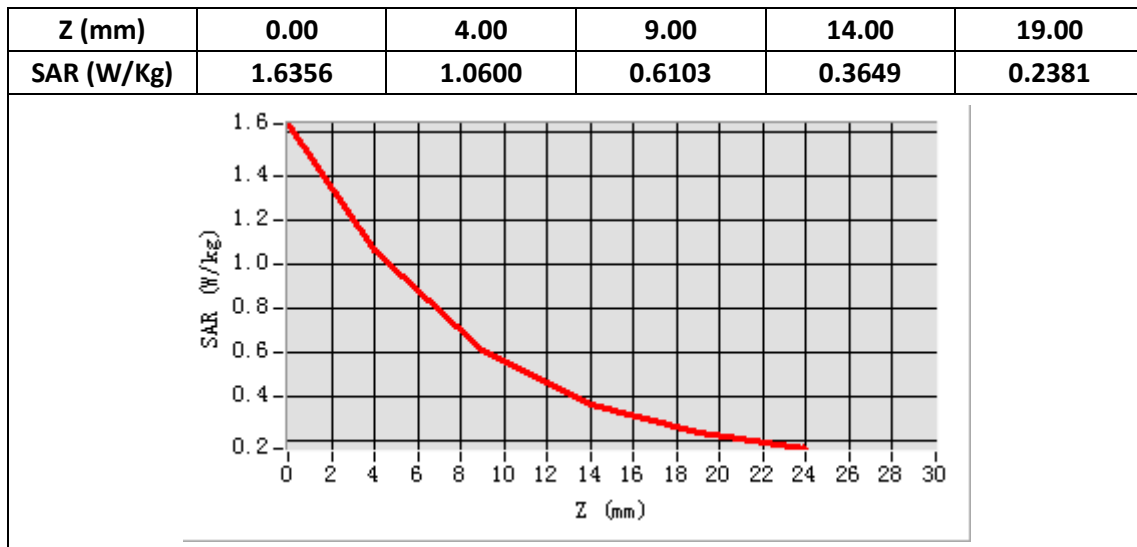
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.6
Relative permittivity (real part)	41.32
Relative permittivity (imaginary part)	18.42
Conductivity (S/m)	0.87
Variation (%)	-2.89
ConvF:	1.92



Maximum location: X=-48.00, Y=-34.00

SAR Peak: 0.20W/kg

SAR 10g (W/Kg)	0.124721
SAR 1g (W/Kg)	0.164577



Plot 2: GPRS850, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 04/16/2019

Measurement duration: 22 minutes 31 seconds

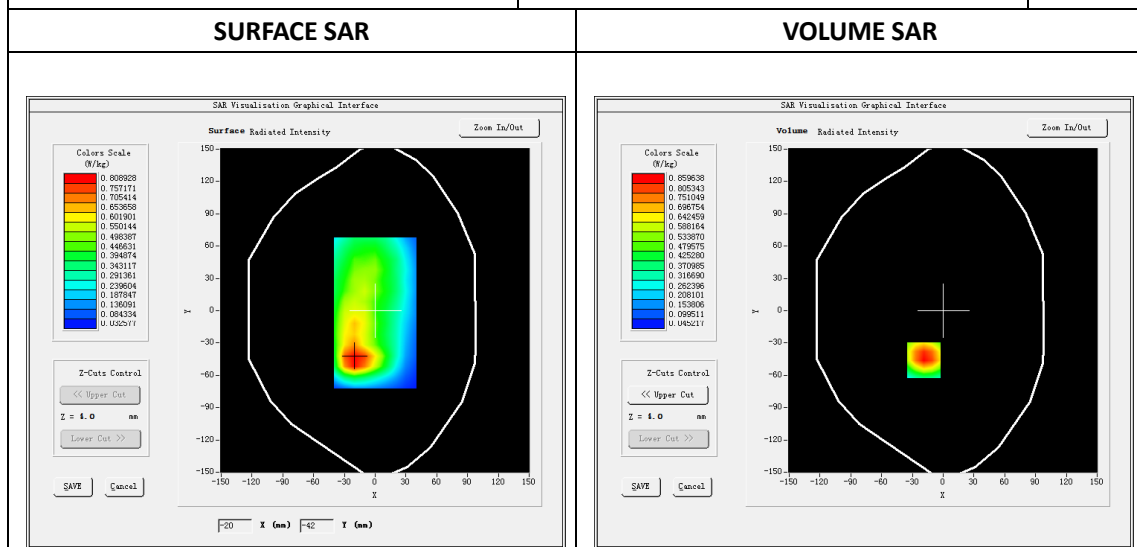
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	GSPRS850_4Tx
Channels	190
Signal	GPRS(Duty cycle: 1:2)

B. SAR Measurement Results

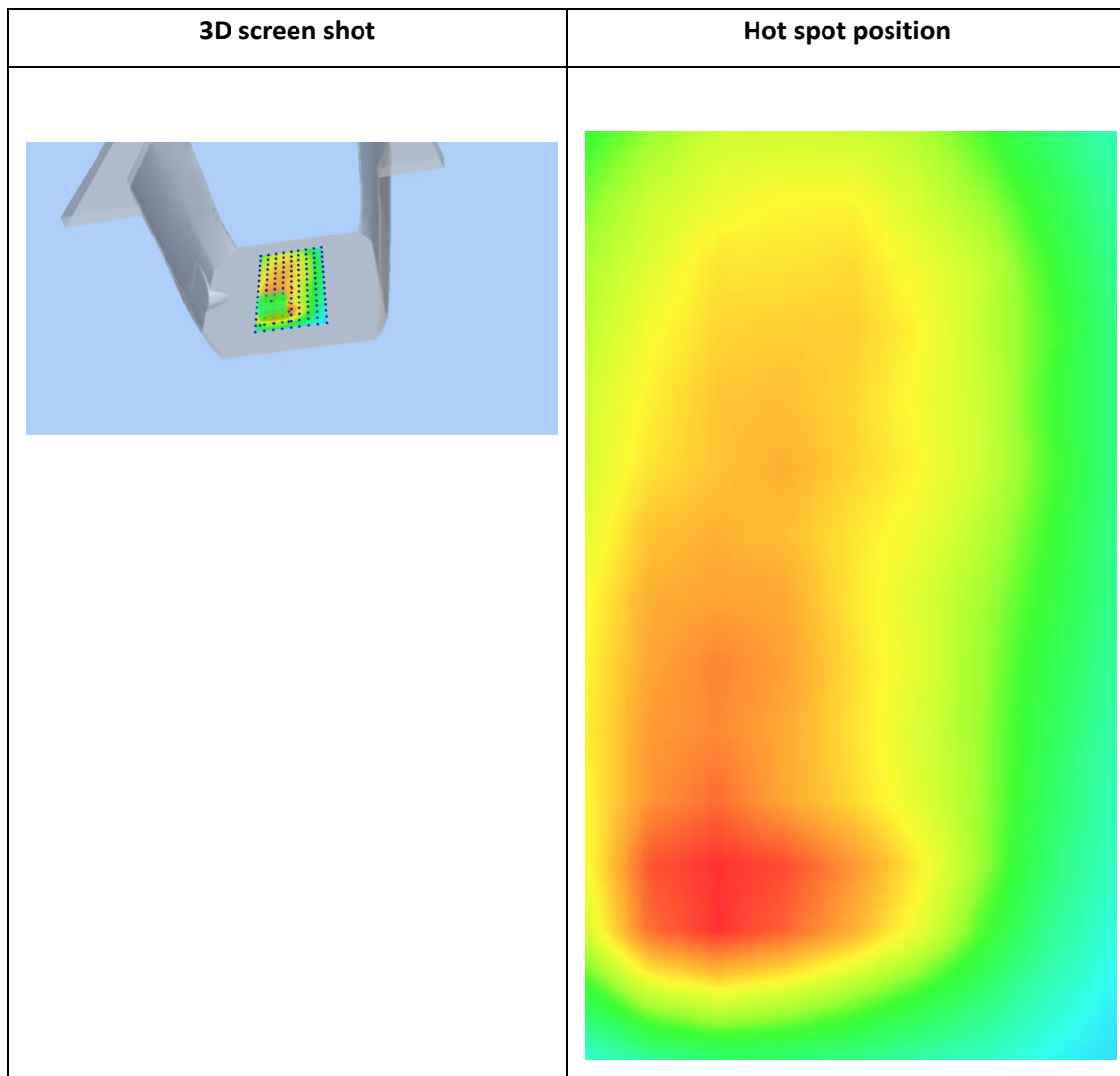
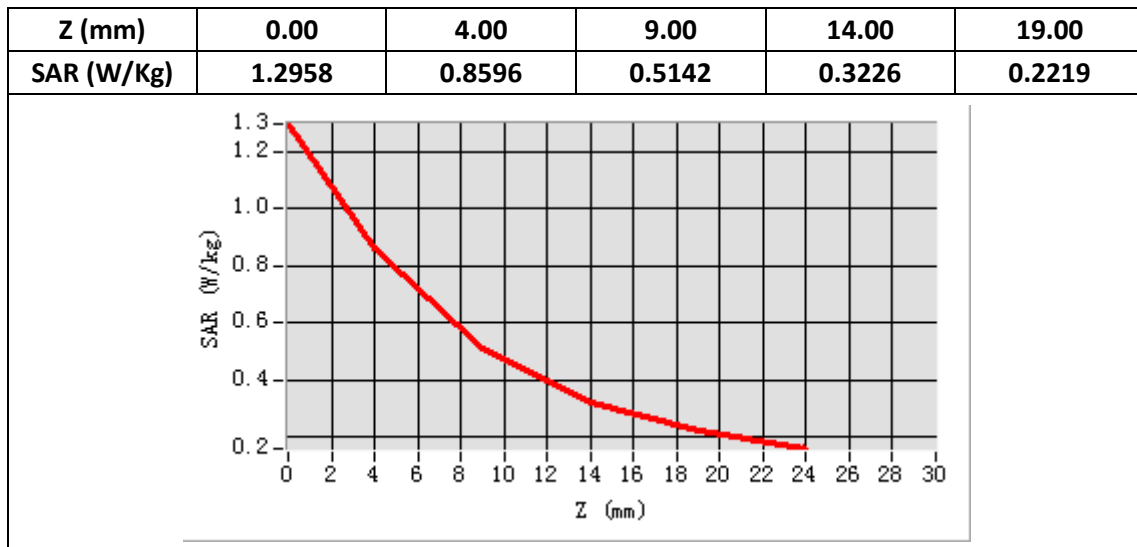
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.6
Relative permittivity (real part)	55.24
Relative permittivity (imaginary part)	20.96
Conductivity (S/m)	0.99
Variation (%)	-3.36
ConvF:	1.99



Maximum location: X=-19.00, Y=-46.00

SAR Peak: 1.32 W/kg

SAR 10g (W/Kg)	0.492952
SAR 1g (W/Kg)	0.837243



Plot3: GSM1900, Left Cheek, Middle

Type: Phone measurement

Date of measurement: 04/18/2019

Measurement duration: 22 minutes 24 seconds

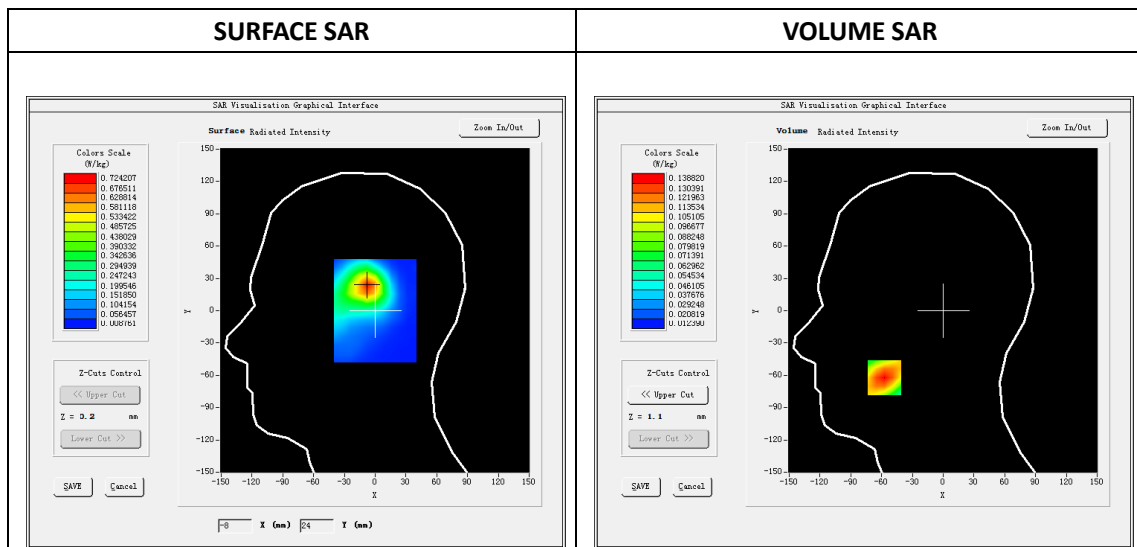
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Left Cheek
Band	GSM1900
Channels	661
Signal	GSM (Duty cycle: 1:8.3)

B. SAR Measurement Results

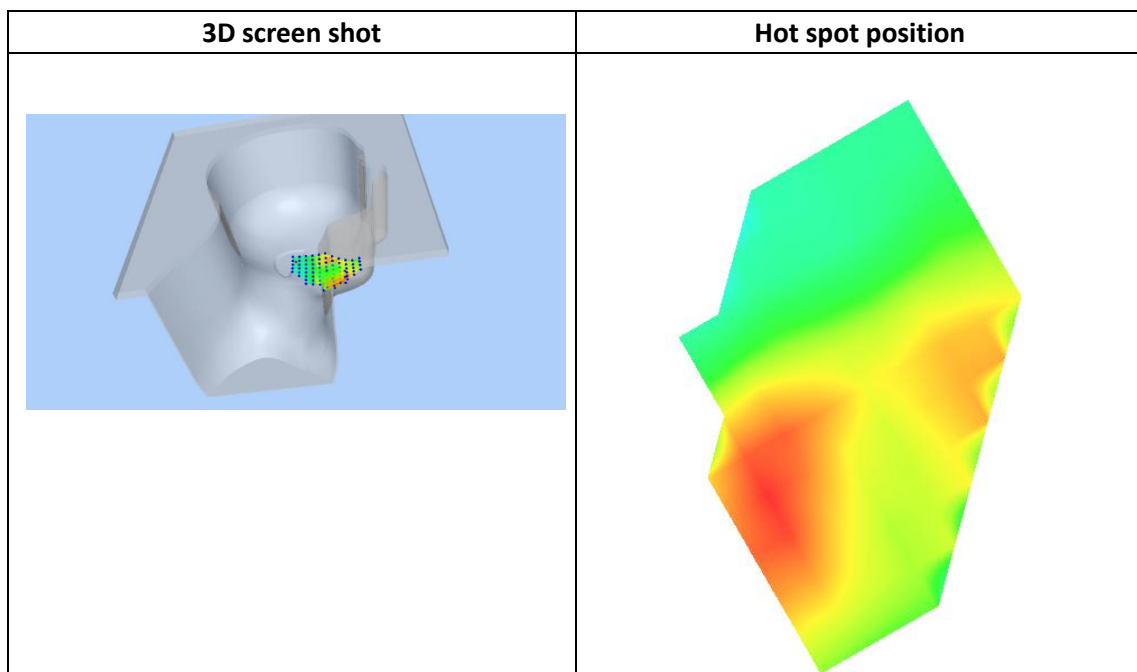
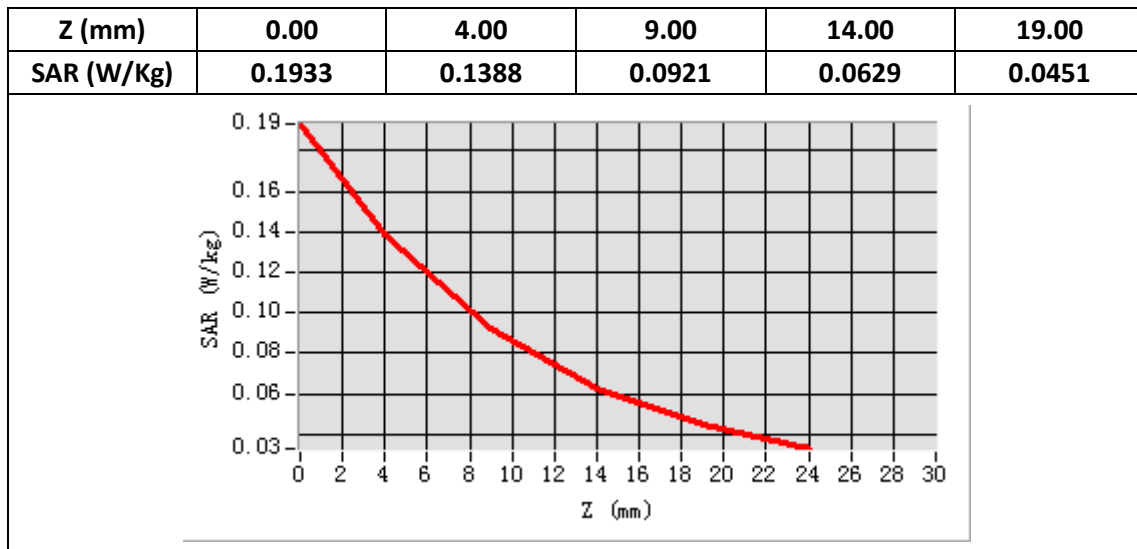
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	40.65
Relative permittivity (imaginary part)	13.45
Conductivity (S/m)	1.42
Variation (%)	-3.88
ConvF:	2.34



Maximum location: X=-57.00, Y=-62.00

SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.084090
SAR 1g (W/Kg)	0.131513



Plot4: GPRS1900, Back Middle ,10mm

Type: Phone measurement

Date of measurement: 04/18/2019

Measurement duration: 22 minutes 23 seconds

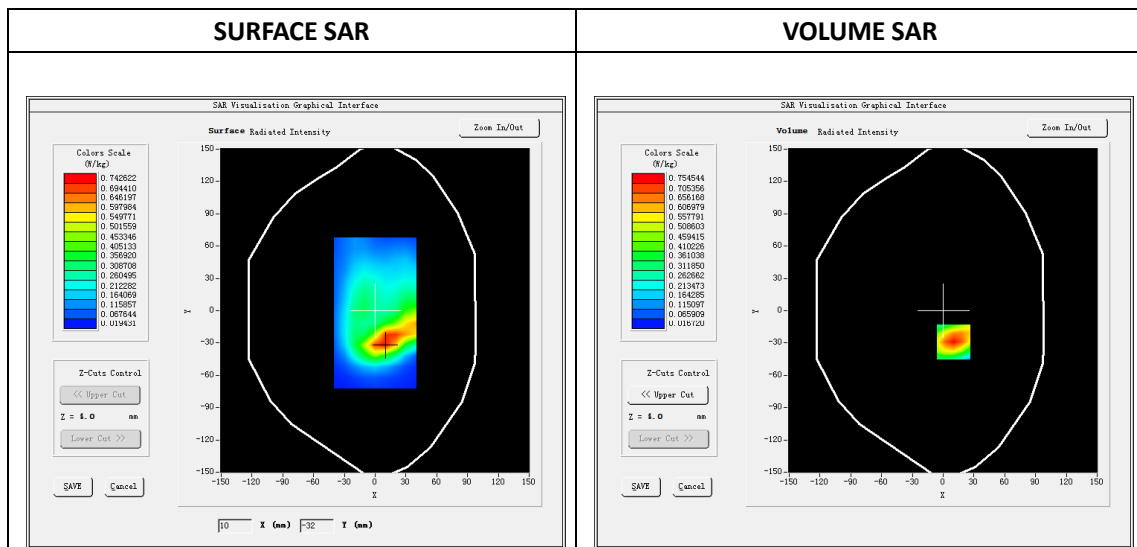
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	GPRS1900_4Tx
Channels	661
Signal	GPRS(Duty cycle: 1:2)

B. SAR Measurement Results

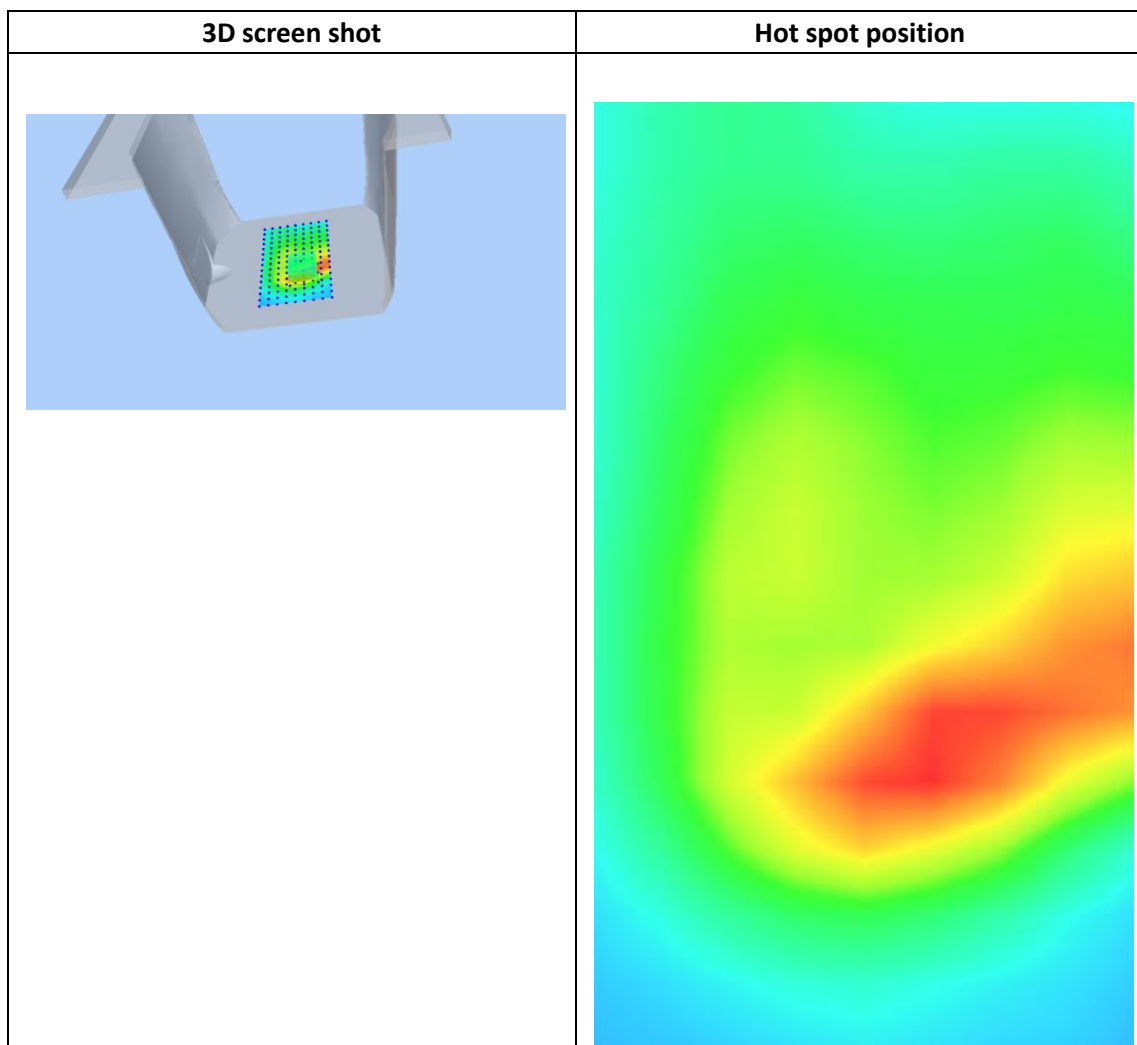
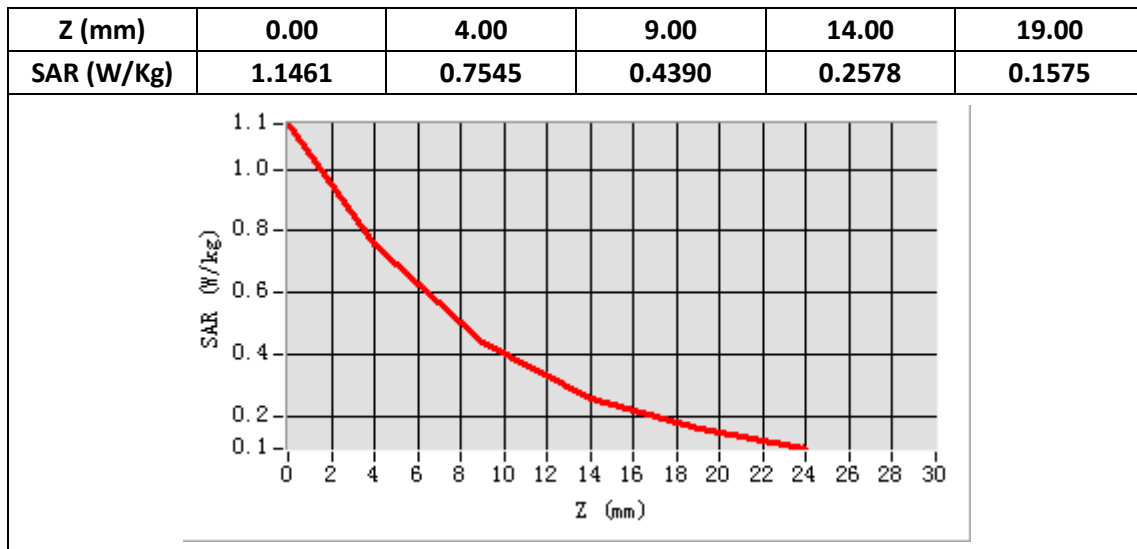
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	53.40
Relative permittivity (imaginary part)	14.49
Conductivity (S/m)	1.53
Variation (%)	-0.28
ConvF:	2.39



Maximum location: X=10.00, Y=-29.00

SAR Peak: 1.15W/kg

SAR 10g (W/Kg)	0.388933
SAR 1g (W/Kg)	0.706475



Plot5: GPRS1900, Edge C Middle ,10mm

Type: Phone measurement

Date of measurement: 04/18/2019

Measurement duration: 22 minutes 17 seconds

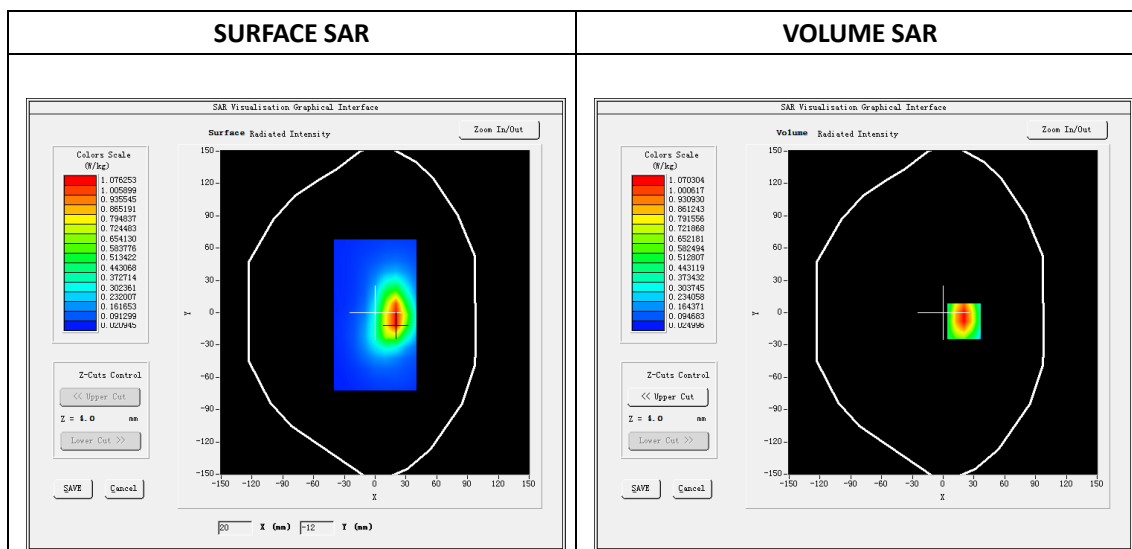
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge C
Band	GPRS1900_4Tx
Channels	661
Signal	GPRS(Duty cycle: 1:2)

B. SAR Measurement Results

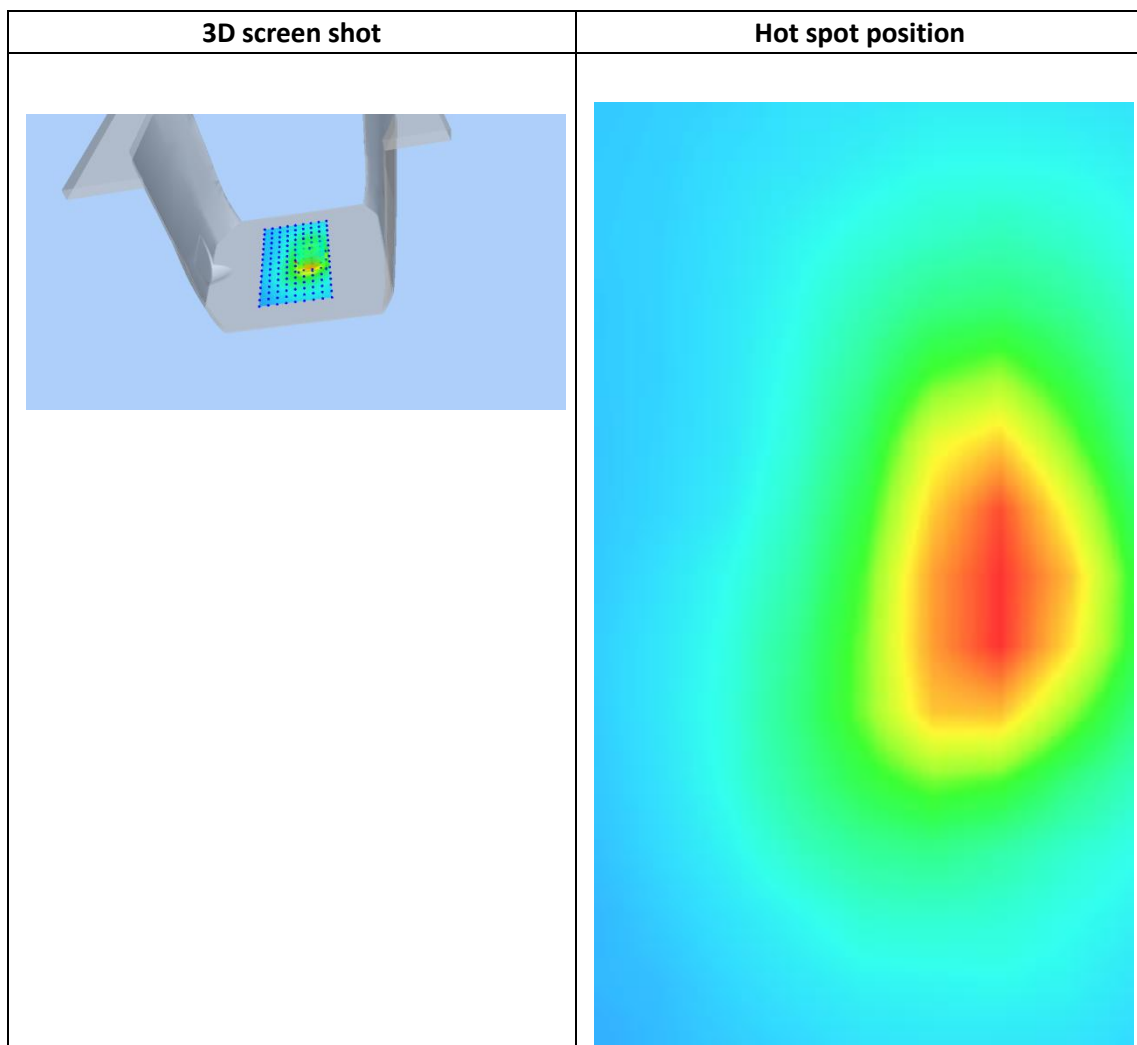
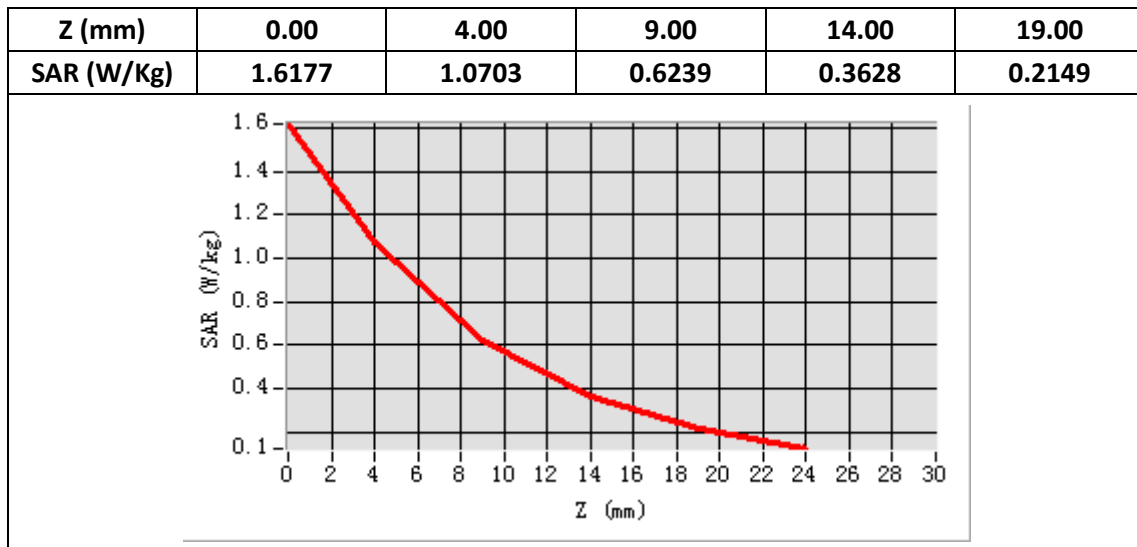
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	53.40
Relative permittivity (imaginary part)	14.49
Conductivity (S/m)	1.53
Variation (%)	-3.93
ConvF:	2.39



Maximum location: X=20.00, Y=-8.00

SAR Peak: 1.65W/kg

SAR 10g (W/Kg)	0.550735
SAR 1g (W/Kg)	1.013968



Plot 6: WCDMA1900, Right Cheek, Middle,10mm

Type: Phone measurement

Date of measurement: 04/18/2019

Measurement duration: 22 minutes 18 seconds

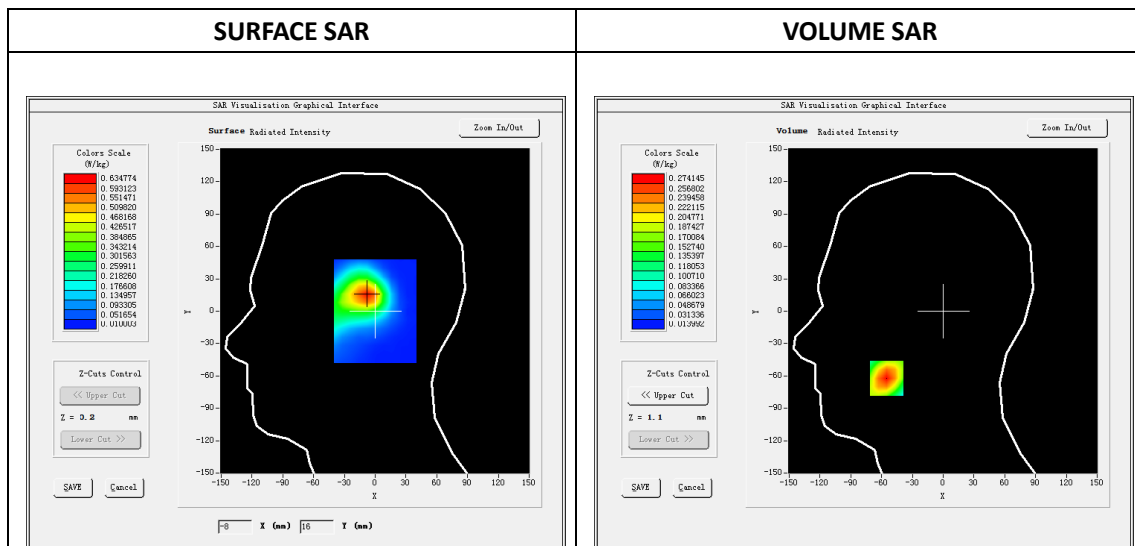
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Right Cheek
Band	Band2_WCDMA1900
Channels	9400
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

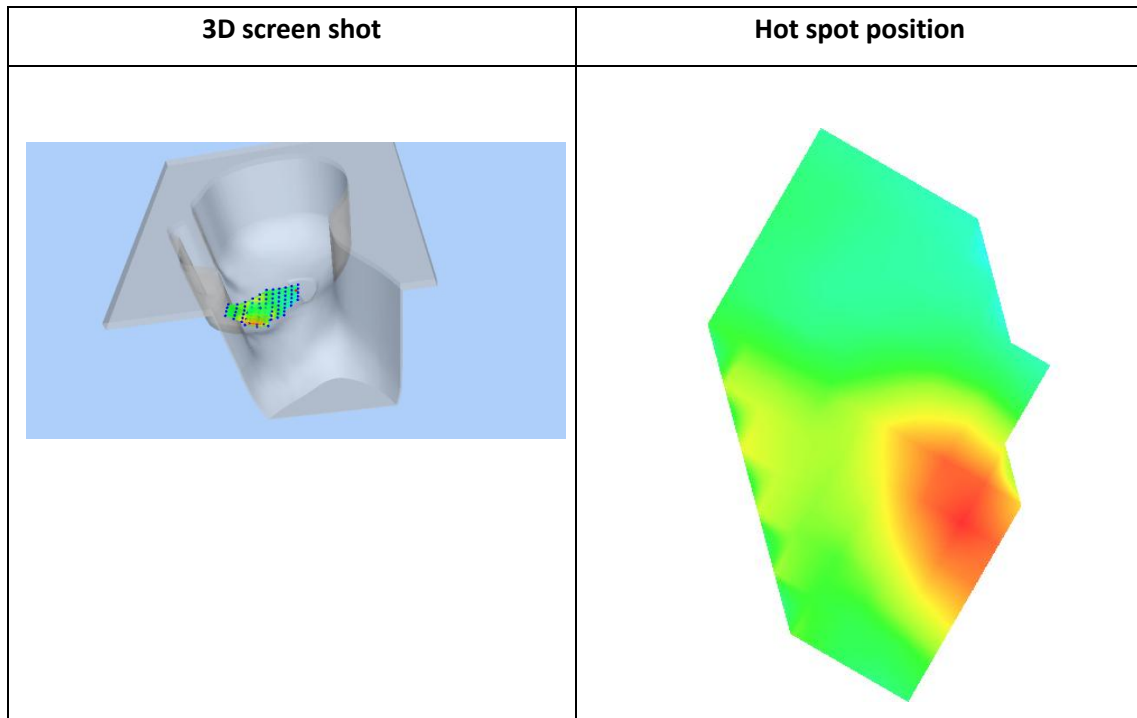
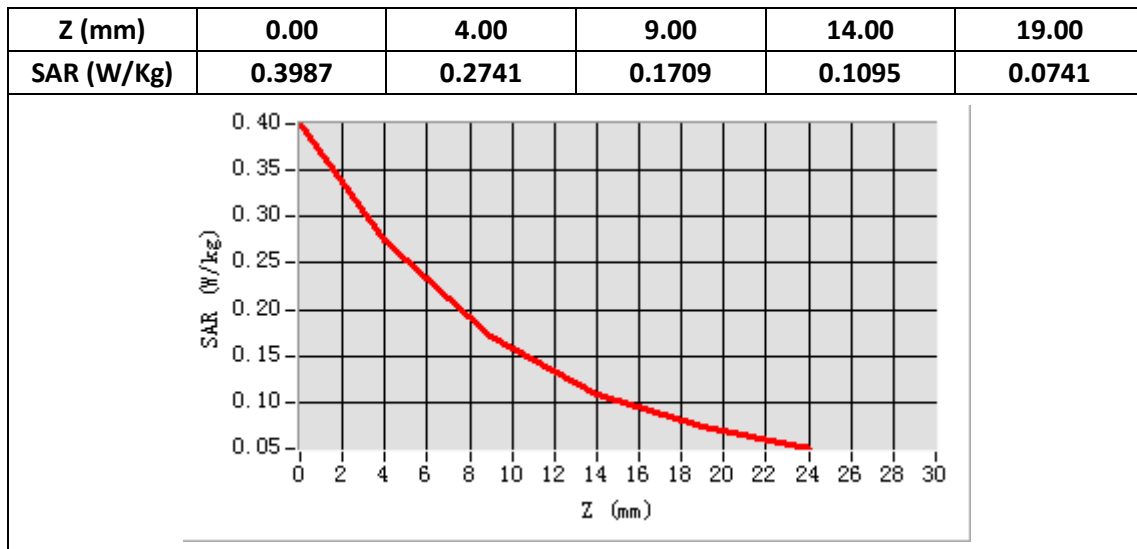
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	40.65
Relative permittivity (imaginary part)	13.45
Conductivity (S/m)	1.42
Variation (%)	2.96
ConvF:	2.34



Maximum location: X=-55.00, Y=-62.00

SAR Peak: 0.40W/kg

SAR 10g (W/Kg)	0.153112
SAR 1g (W/Kg)	0.257556



Plot 7: WCDMA1900 Back, Middle,10mm

Type: Phone measurement

Date of measurement: 04/18/2019

Measurement duration: 22 minutes 51 seconds

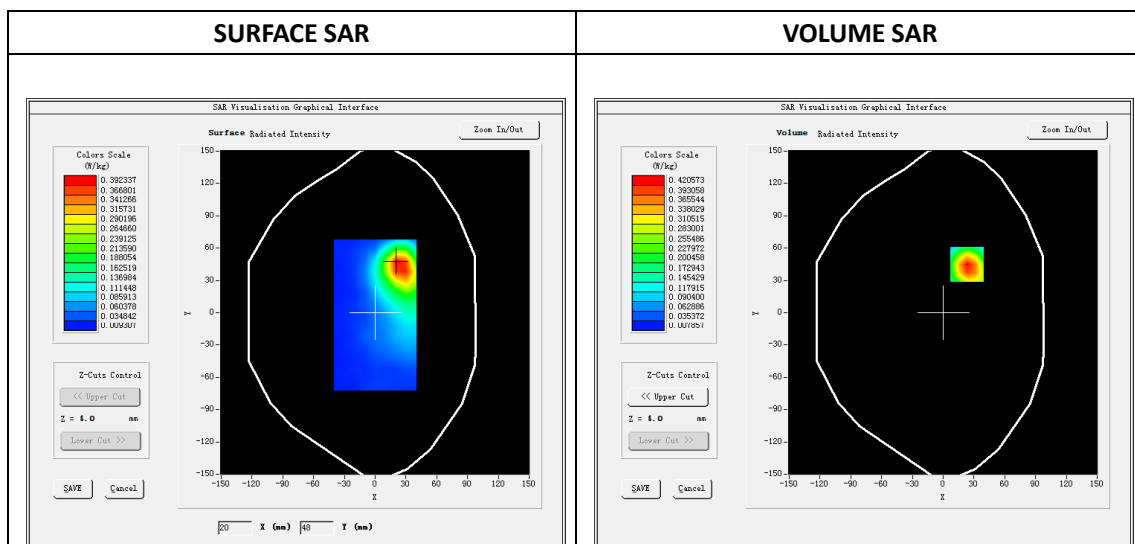
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	Band2_WCDMA1900
Channels	9400
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

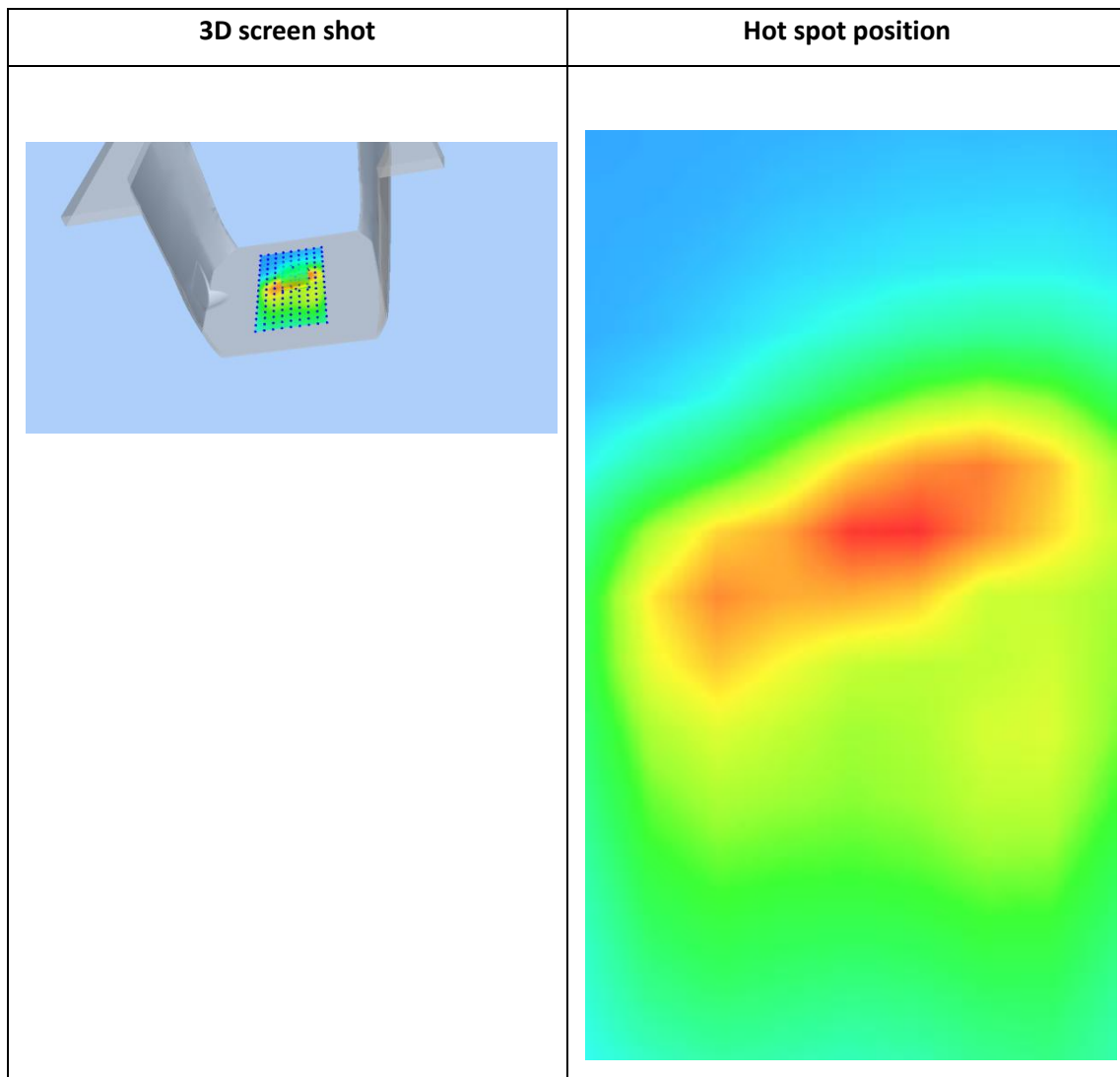
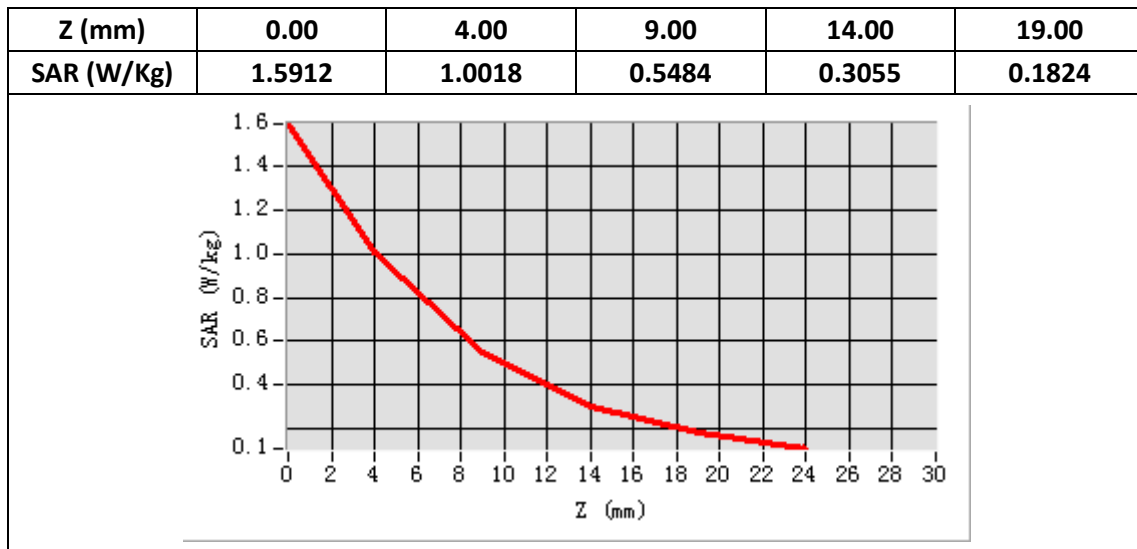
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	53.40
Relative permittivity (imaginary part)	14.49
Conductivity (S/m)	1.53
Variation (%)	-0.58
ConvF:	2.39



Maximum location: X=6.00, Y=8.00

SAR Peak: 1.59W/kg

SAR 10g (W/Kg)	0.497067
SAR 1g (W/Kg)	0.932430



Plot 8: WCDMA1900 Edge C, Middle,10mm

Type: Phone measurement

Date of measurement: 04/18/2019

Measurement duration: 22 minutes 46 seconds

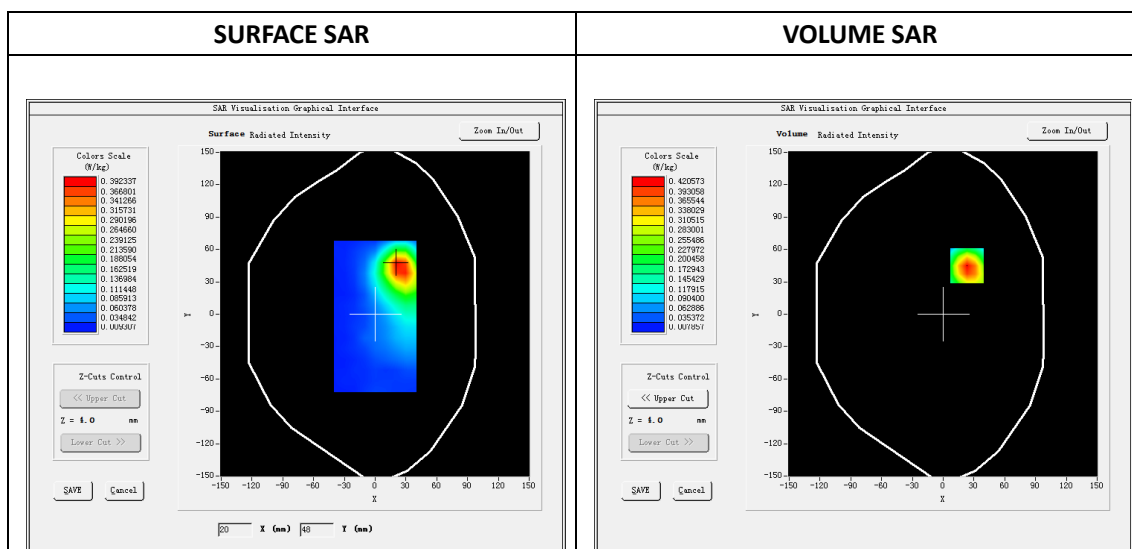
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge C
Band	Band2_WCDMA1900
Channels	9400
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

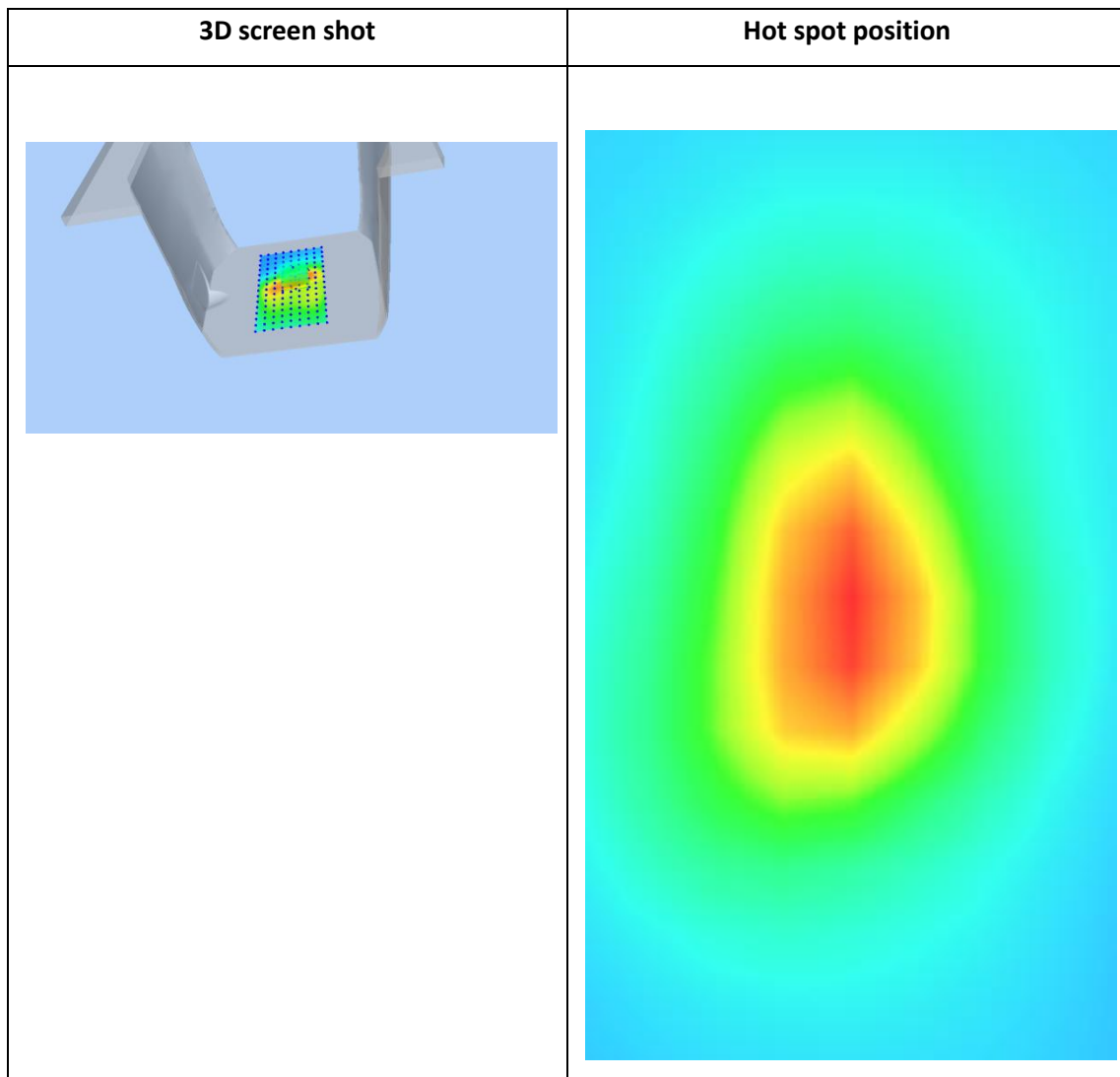
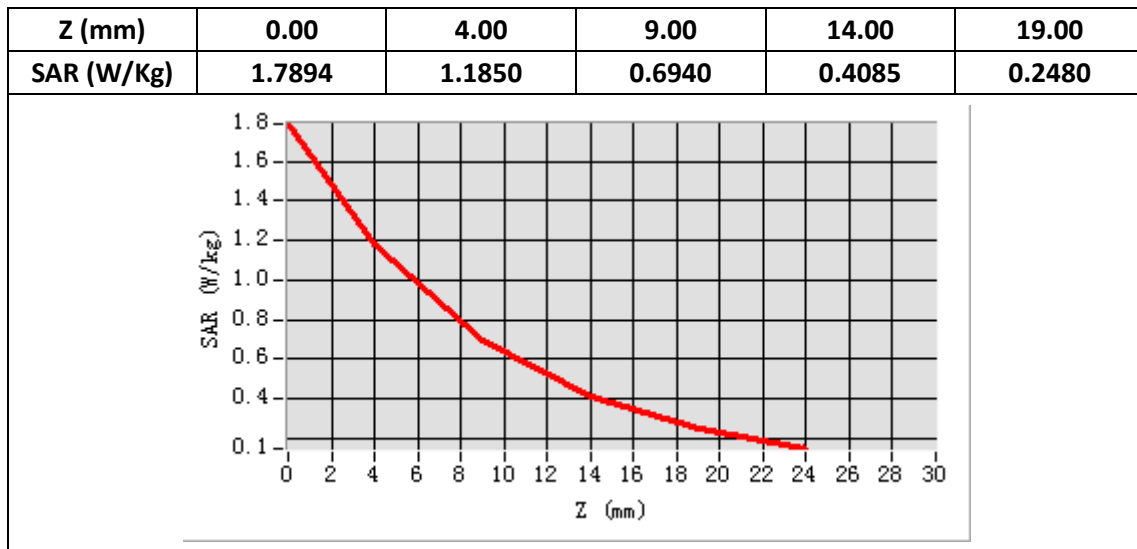
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	53.40
Relative permittivity (imaginary part)	14.49
Conductivity (S/m)	1.53
Variation (%)	-1.56
ConvF:	2.39



Maximum location: X=0.00, Y=-3.00

SAR Peak: 1.79W/kg

SAR 10g (W/Kg)	0.608547
SAR 1g (W/Kg)	1.103152



Plot 9: WCDMA1700, Left Cheek, Middle,10mm

Type: Phone measurement

Date of measurement: 04/17/2019

Measurement duration: 22 minutes 21 seconds

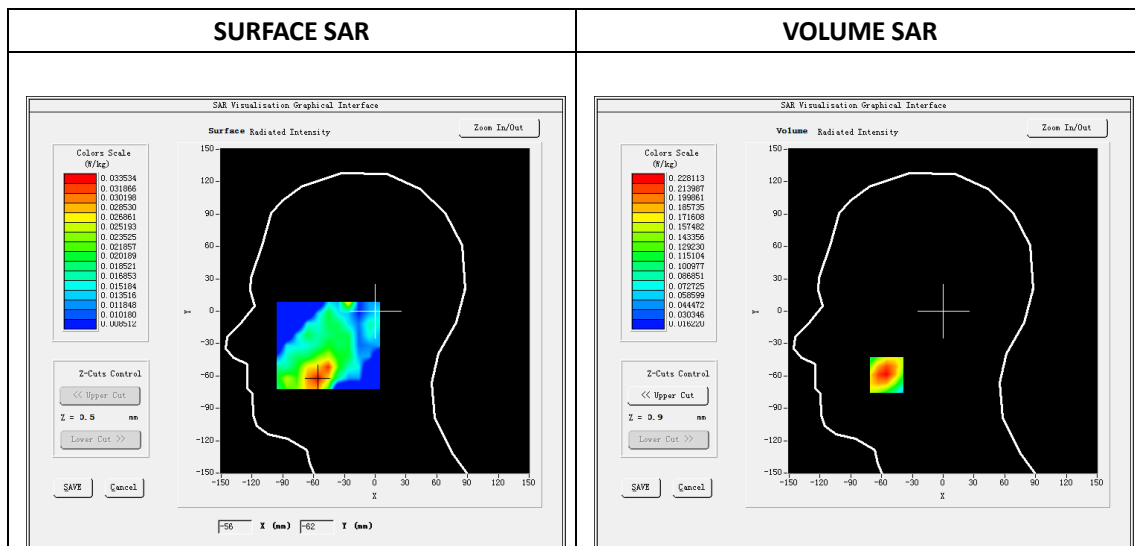
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Left Cheek
Band	Band2_WCDMA1700
Channels	1413
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

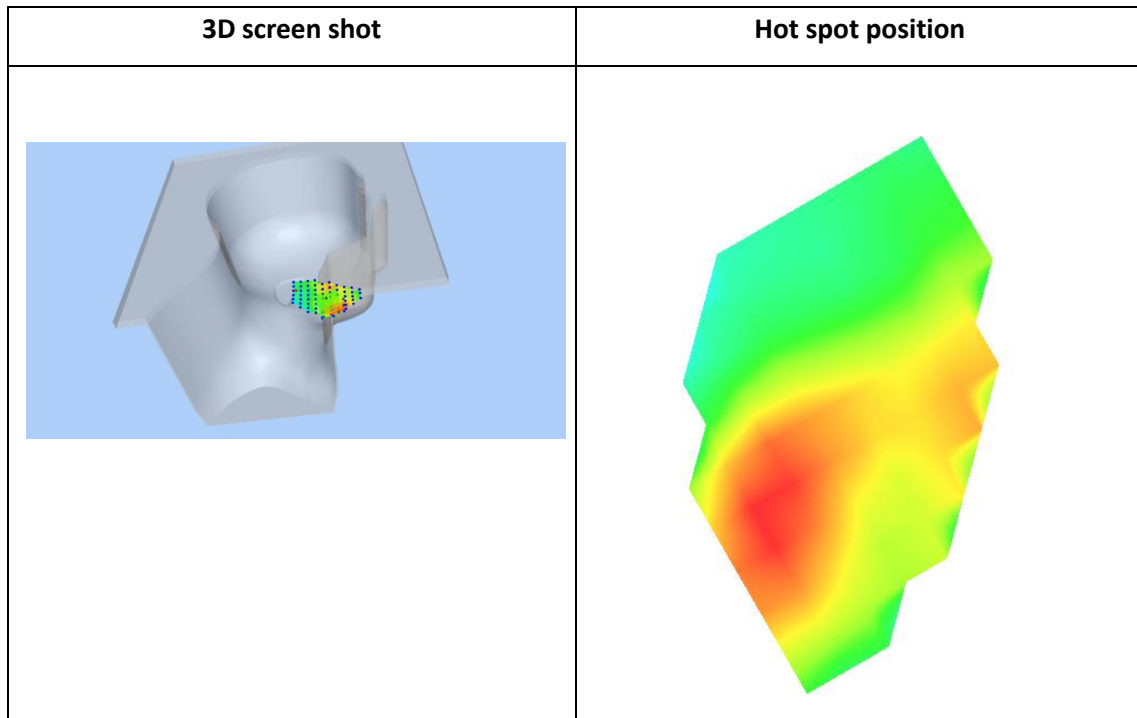
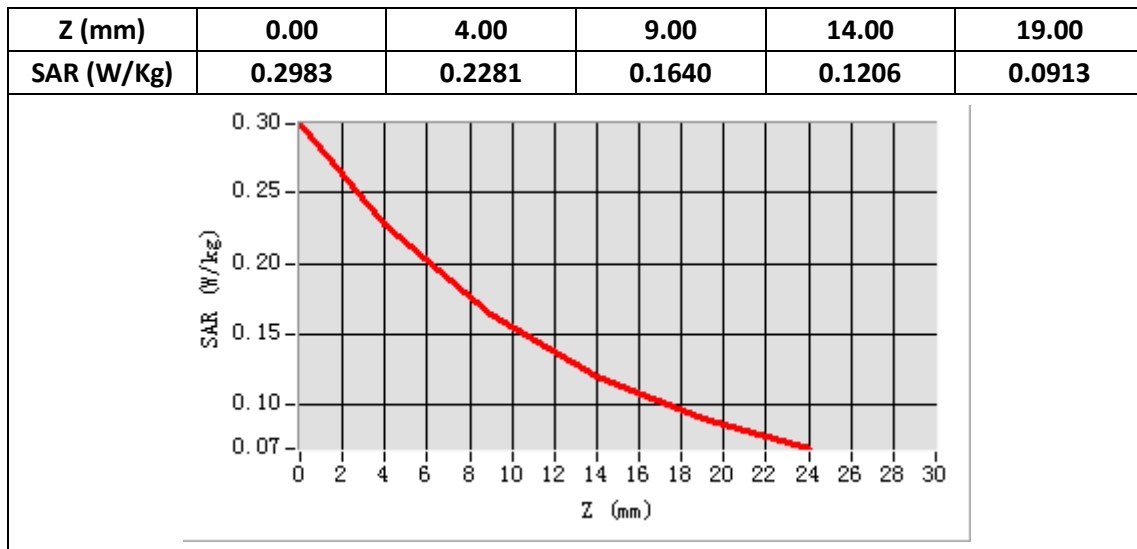
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.6
Relative permittivity (real part)	40.34
Relative permittivity (imaginary part)	13.10
Conductivity (S/m)	1.31
Variation (%)	-2.96
ConvF:	2.14



Maximum location: X=-55.00, Y=-59.00

SAR Peak: 0.30W/kg

SAR 10g (W/Kg)	0.145765
SAR 1g (W/Kg)	0.221185



Plot 10: WCDMA1700,Back, Middle,10mm

Type: Phone measurement

Date of measurement: 04/17/2019

Measurement duration: 22 minutes 35 seconds

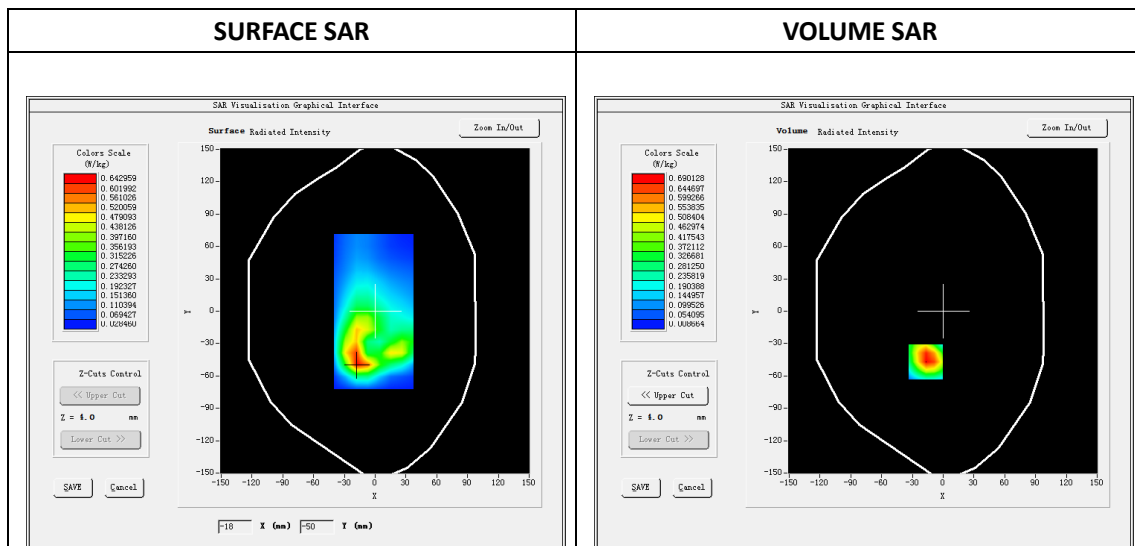
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	Band2_WCDMA1700
Channels	1413
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

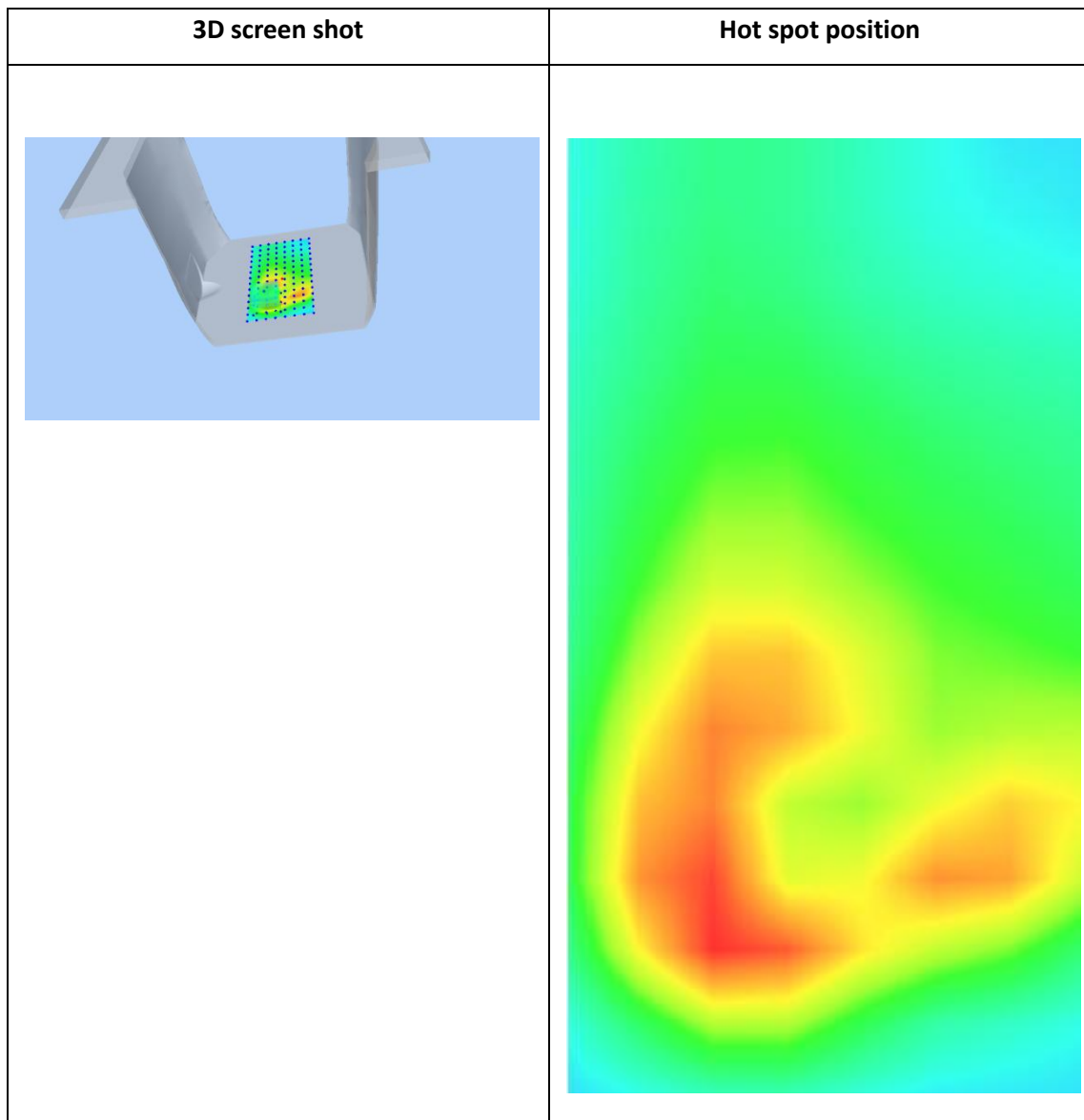
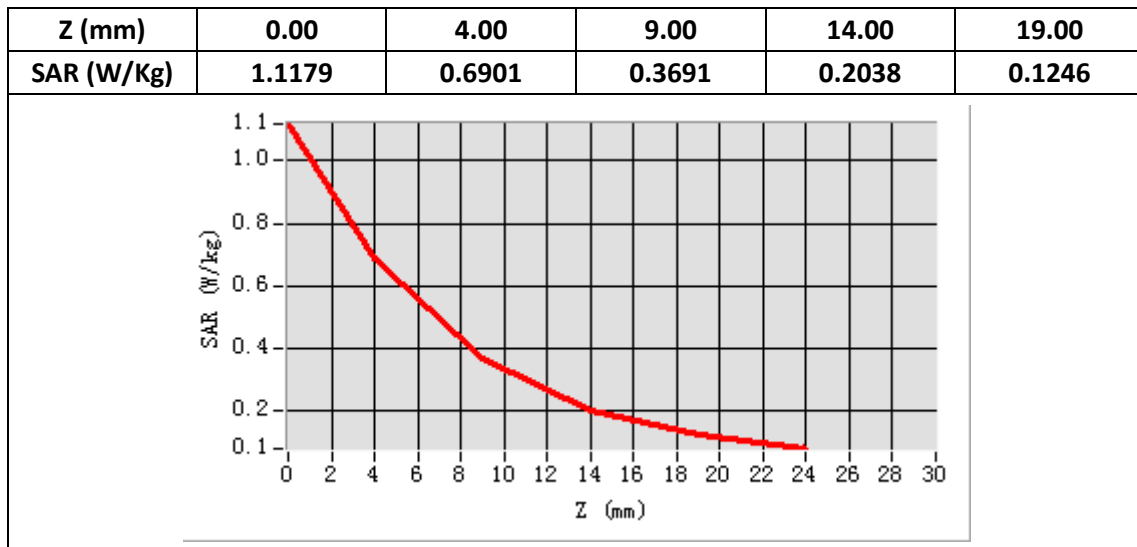
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.6
Relative permittivity (real part)	53.39
Relative permittivity (imaginary part)	15.20
Conductivity (S/m)	1.52
Variation (%)	-0.96
ConvF:	2.22



Maximum location: X=-17.00, Y=-47.00

SAR Peak: 1.16W/kg

SAR 10g (W/Kg)	0.348881
SAR 1g (W/Kg)	0.675389



Plot 11: WCDMA850, Right Cheek, Middle

Type: Phone measurement

Date of measurement: 04/16/2019

Measurement duration: 22 minutes 25 seconds

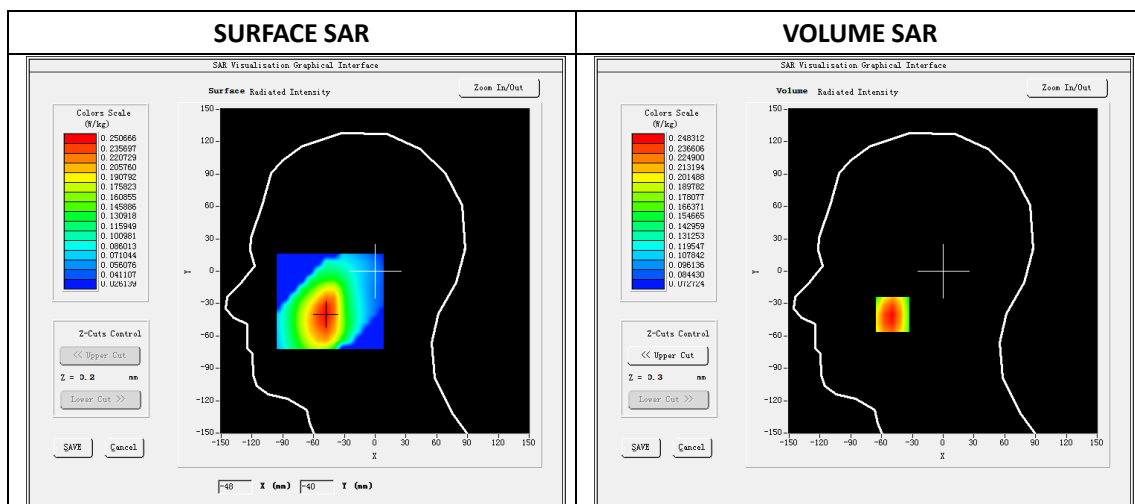
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Right Cheek
Band	Band5_WCDMA850
Channels	4183
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

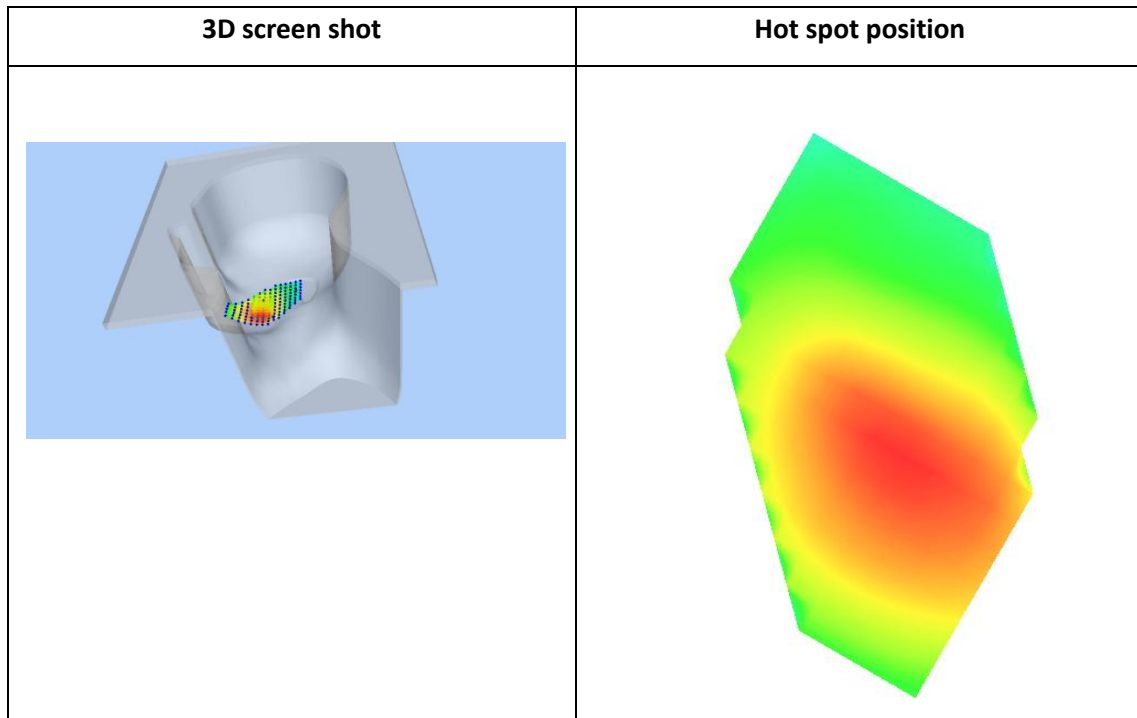
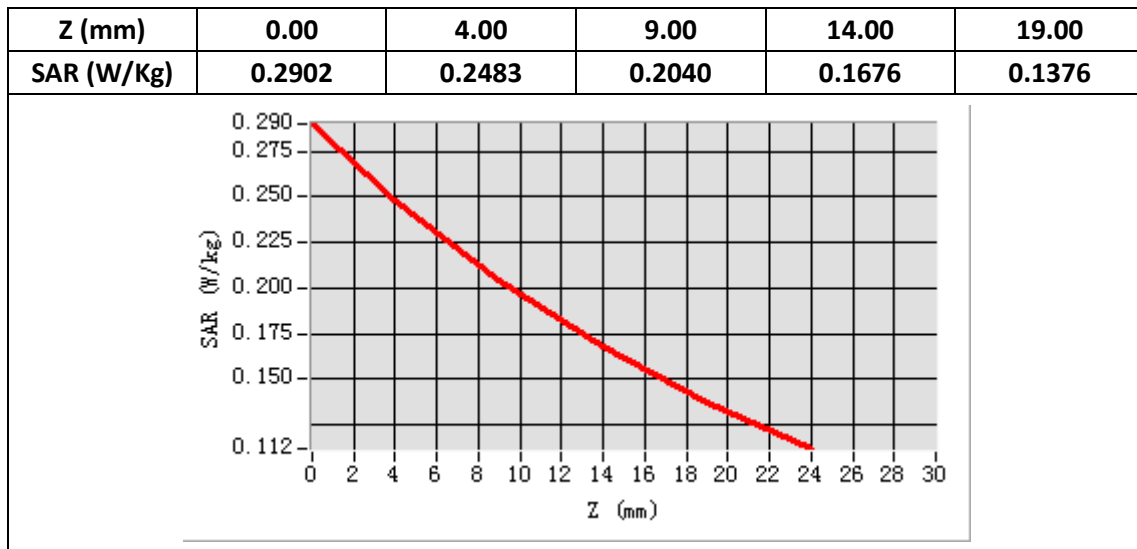
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.6
Relative permittivity (real part)	41.32
Relative permittivity (imaginary part)	18.42
Conductivity (S/m)	0.87
Variation (%)	-0.09
ConvF:	1.92



Maximum location: X=-49.00, Y=-40.00

SAR Peak: 0.29W/kg

SAR 10g (W/Kg)	0.186966
SAR 1g (W/Kg)	0.244318



Plot 12: WCDMA850, BACK, Middle,10mm

Type: Phone measurement

Date of measurement: 04/16/2019

Measurement duration: 22 minutes 11 seconds

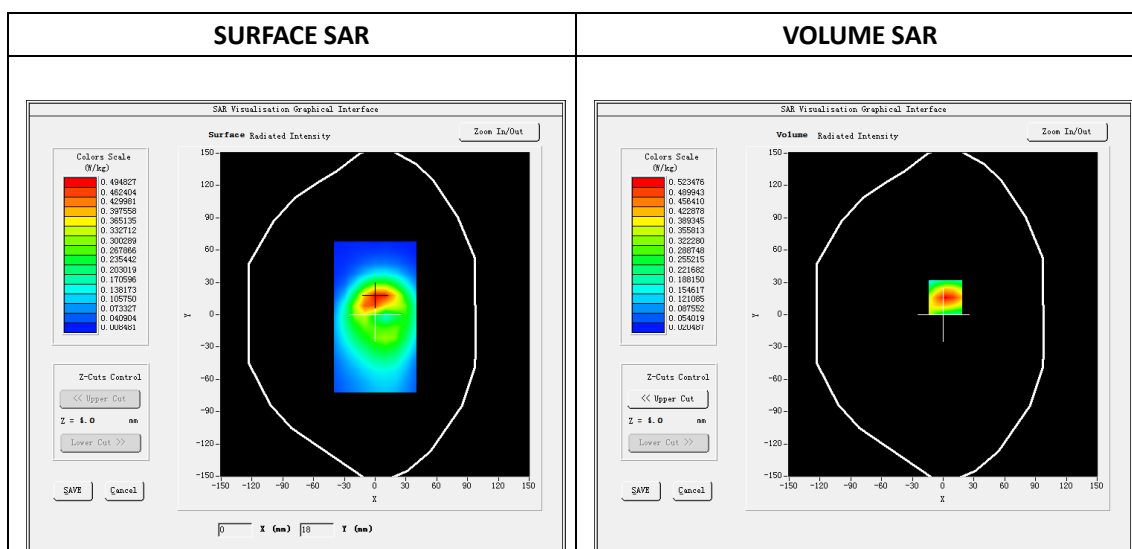
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	Band5_WCDMA850
Channels	4183
Signal	WCDMA (Duty cycle: 1:1)

B. SAR Measurement Results

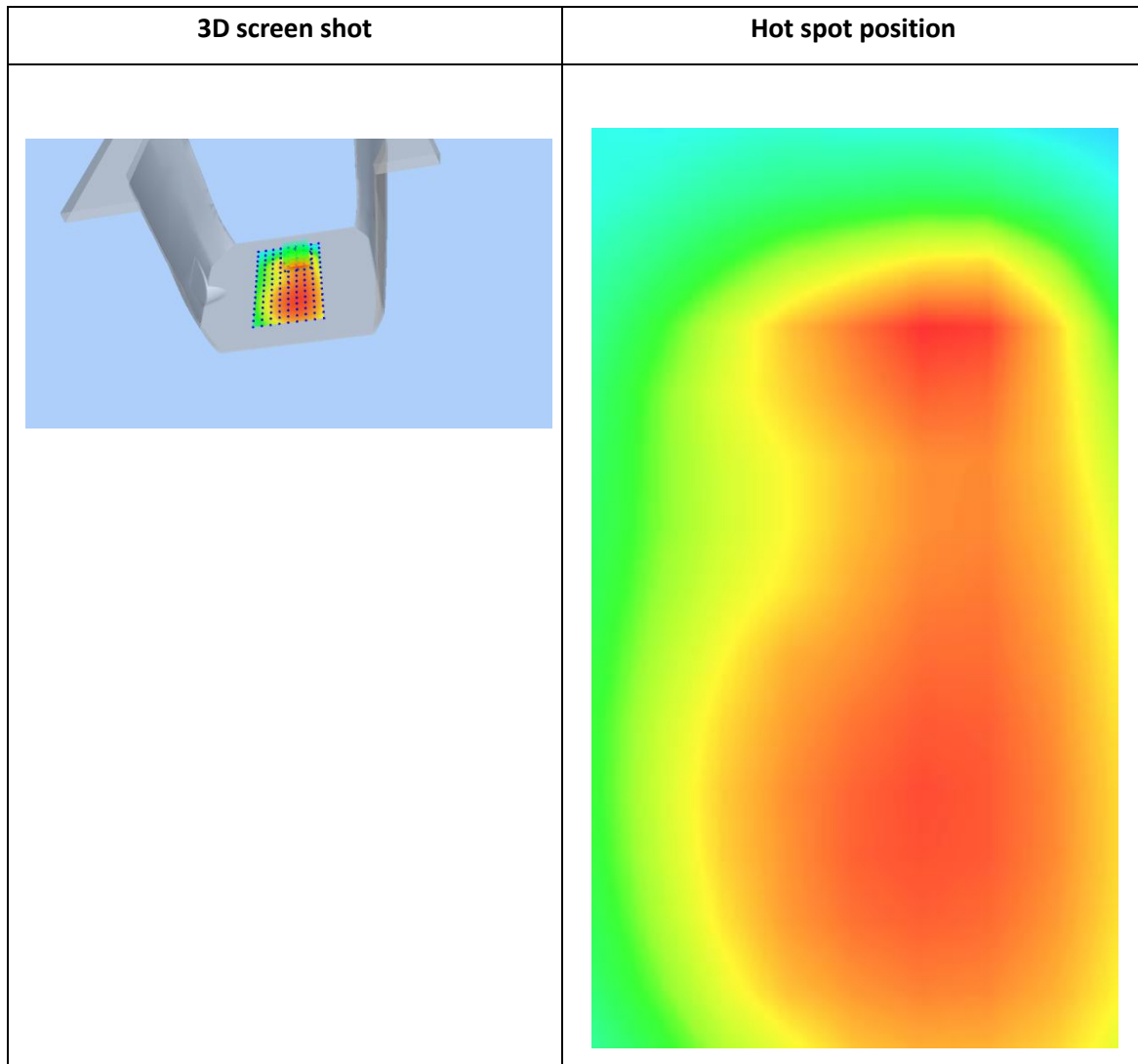
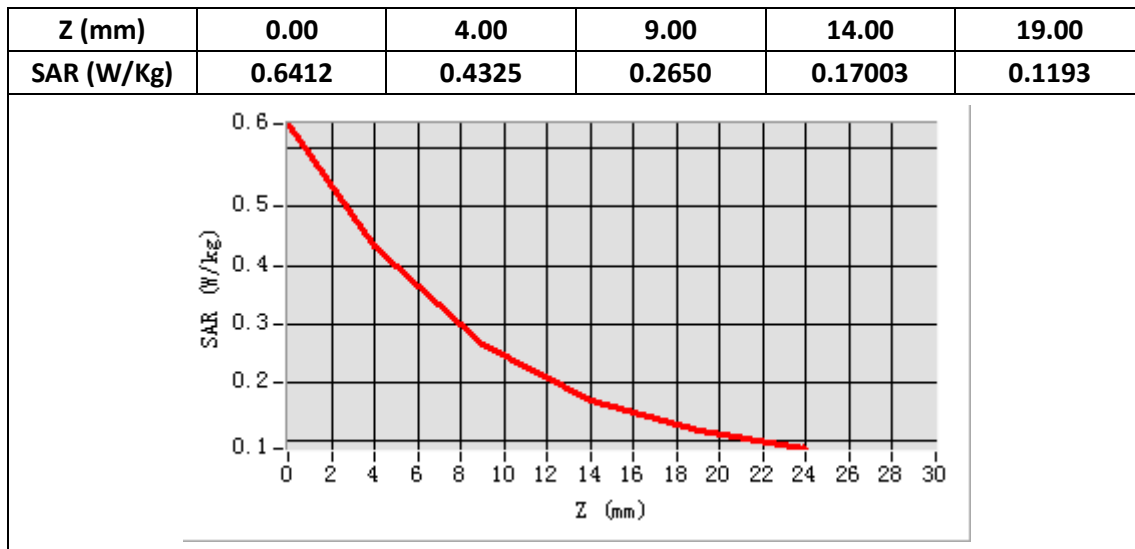
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.6
Relative permittivity (real part)	55.24
Relative permittivity (imaginary part)	20.96
Conductivity (S/m)	0.99
Variation (%)	-1.56
ConvF:	1.99



Maximum location: X=12.00, Y=36.00

SAR Peak: 0.66W/kg

SAR 10g (W/Kg)	0.253873
SAR 1g (W/Kg)	0.424131



Plot 13: LTE Band 2, 20MHz, Right Cheek , Middle

Type: Phone measurement

Date of measurement: 04/18/2019

Measurement duration: 22 minutes 12 seconds

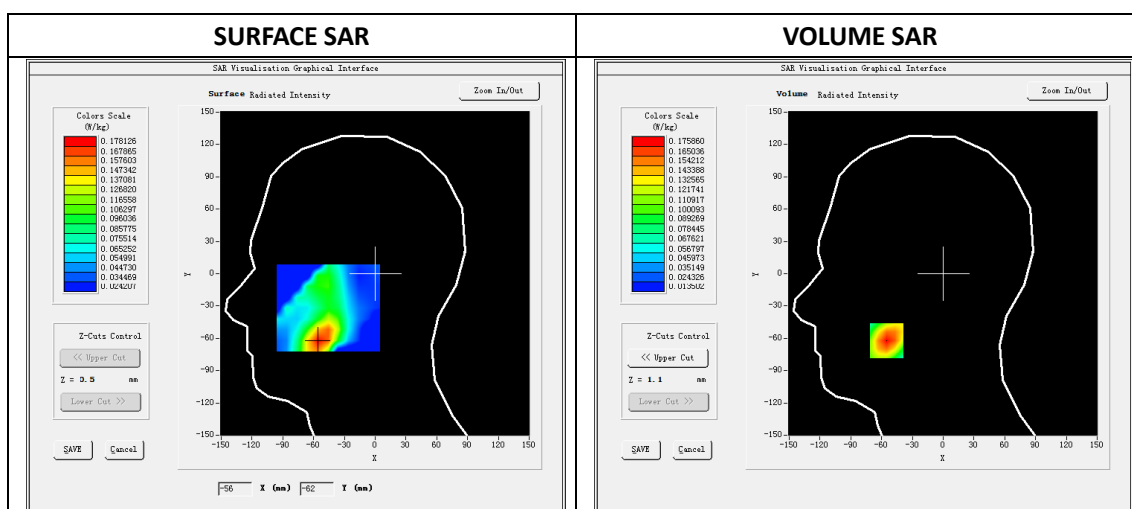
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Right Cheek
Band	LTE Band 2
Channels	18900
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

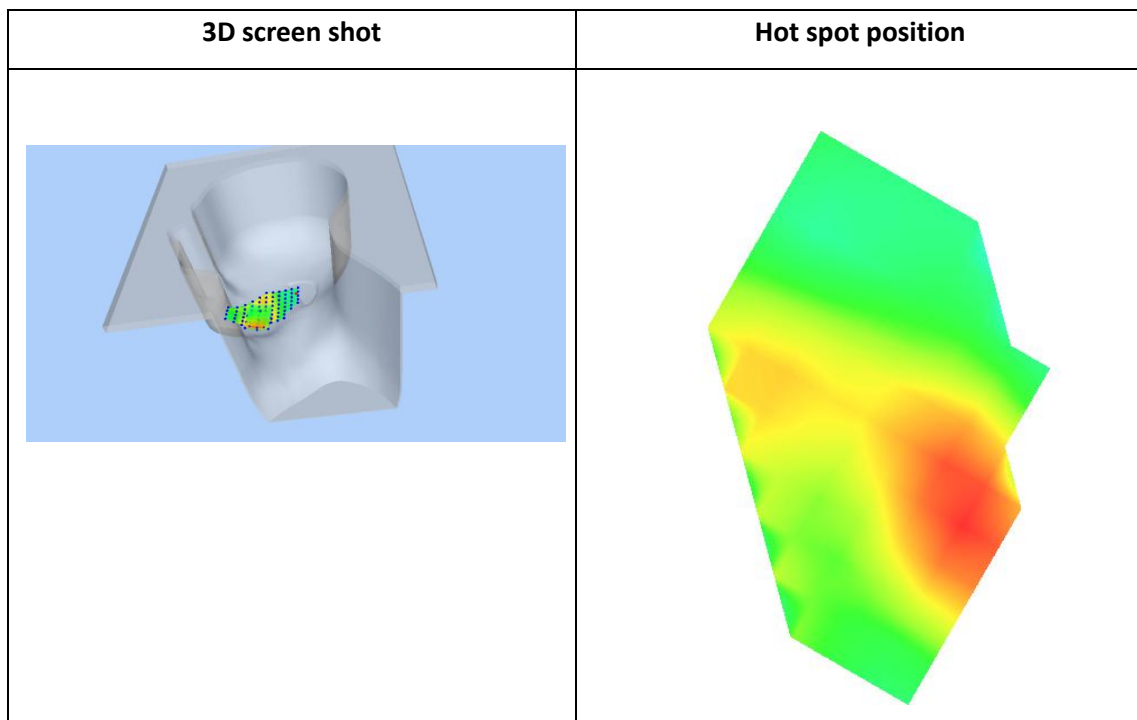
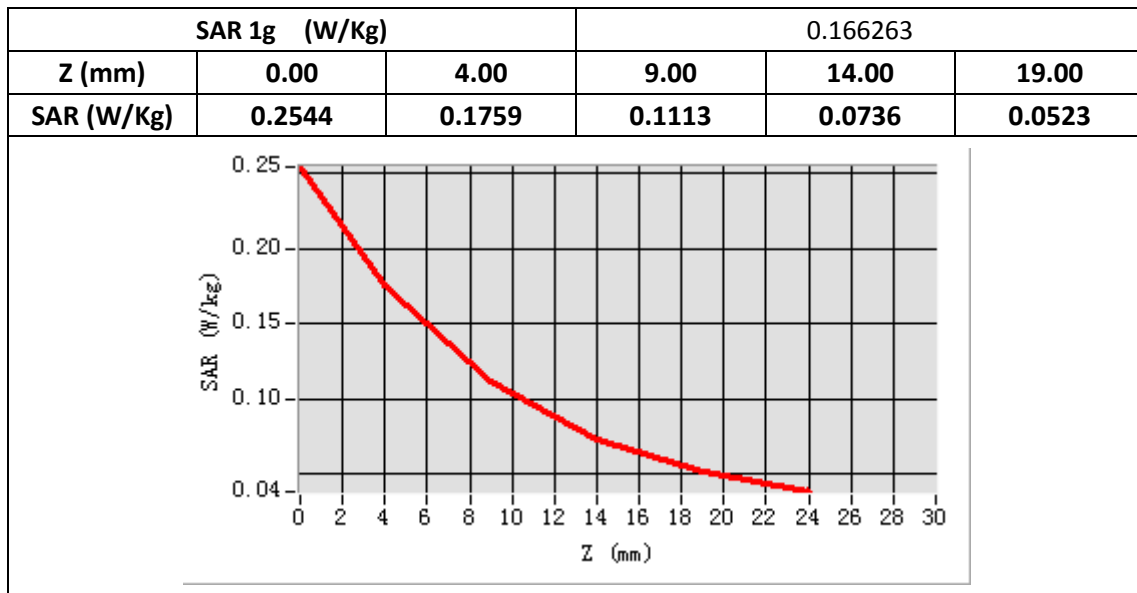
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	40.65
Relative permittivity (imaginary part)	13.45
Conductivity (S/m)	1.42
Variation (%)	-4.05
ConvF:	2.34



Maximum location: X=-55.00, Y=-62.00

SAR Peak: 0.25W/kg

SAR 10g (W/Kg)	0.102268
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Plot 14: LTE Band2, 20MHz, Back Middle,10mm

Type: Phone measurement

Date of measurement: 04/18/2019

Measurement duration: 22 minutes 35 seconds

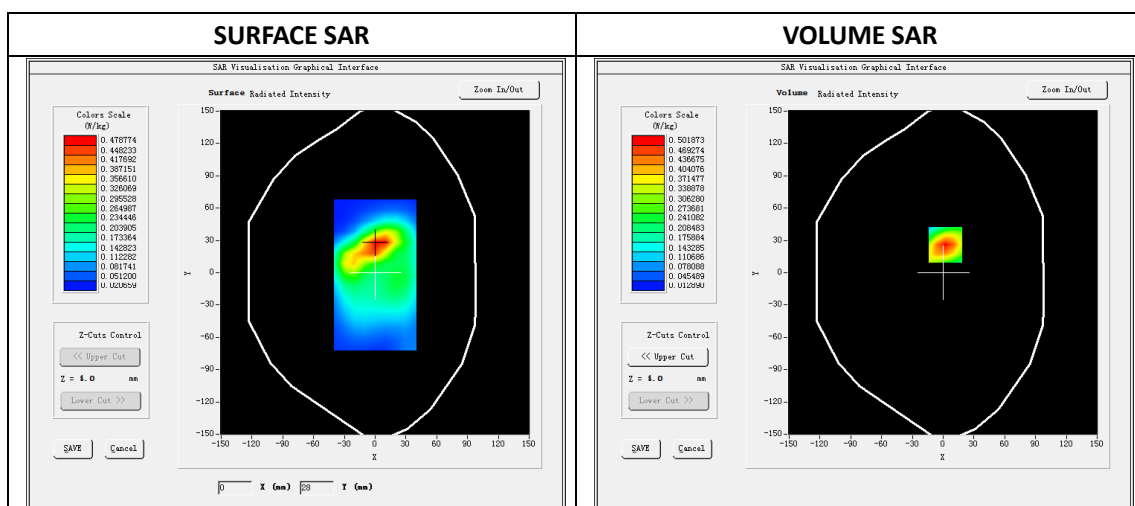
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	LTE Band 2
Channels	18900
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

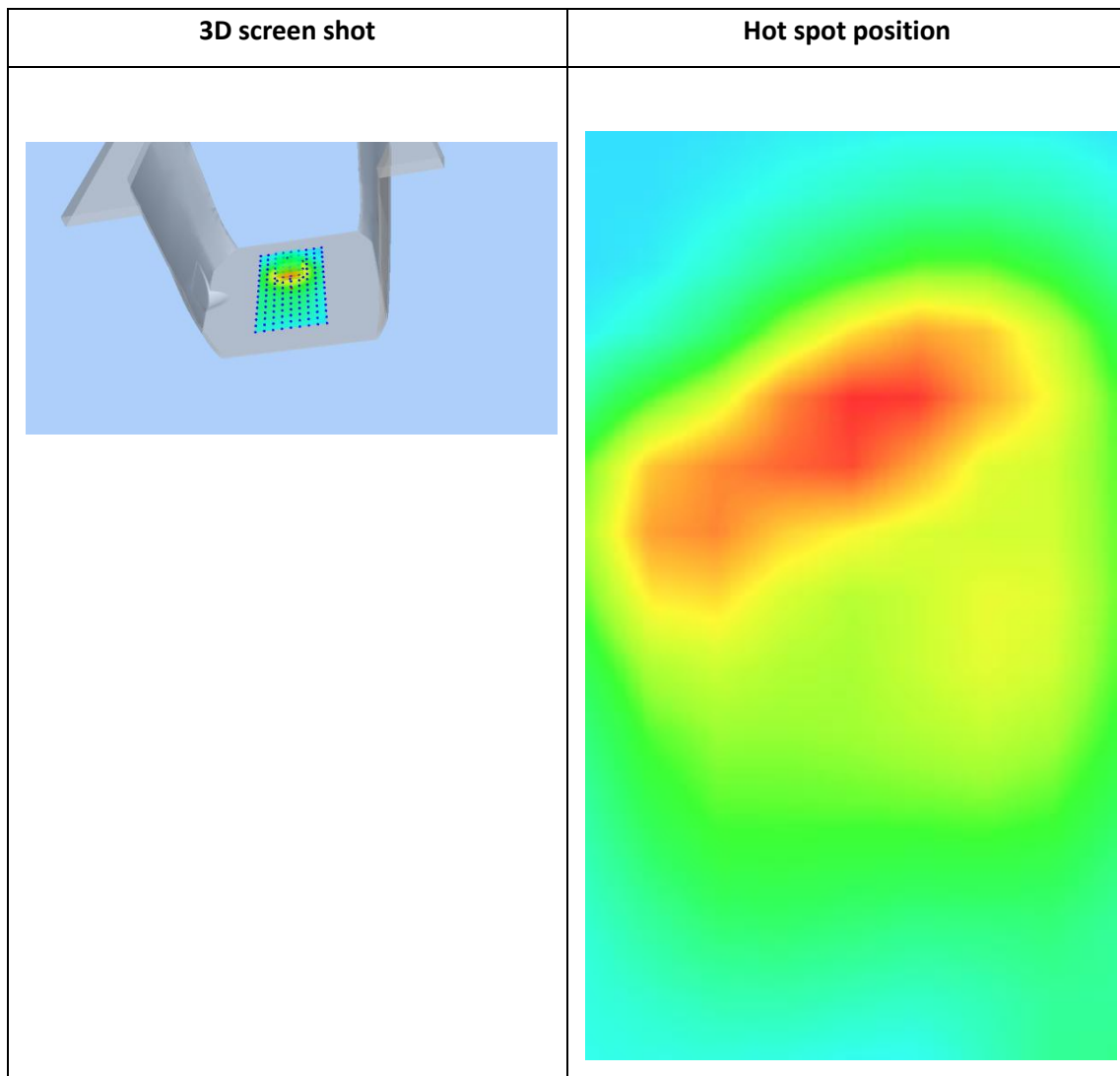
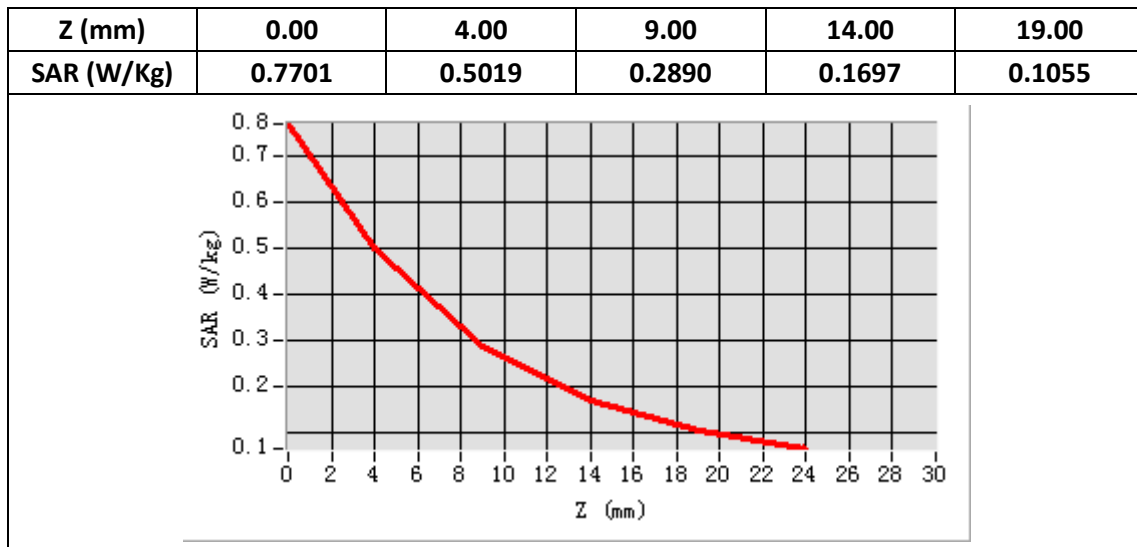
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	53.40
Relative permittivity (imaginary part)	14.49
Conductivity (S/m)	1.53
Variation (%)	-3.07
ConvF:	2.39



Maximum location: X=2.00, Y=26.00

SAR Peak: 0.77W/kg

SAR 10g (W/Kg)	0.259141
SAR 1g (W/Kg)	0.469526



Plot 15: LTE Band2, 20MHz, Edge C Middle,10mm

Type: Phone measurement

Date of measurement: 04/18/2019

Measurement duration: 22 minutes 37 seconds

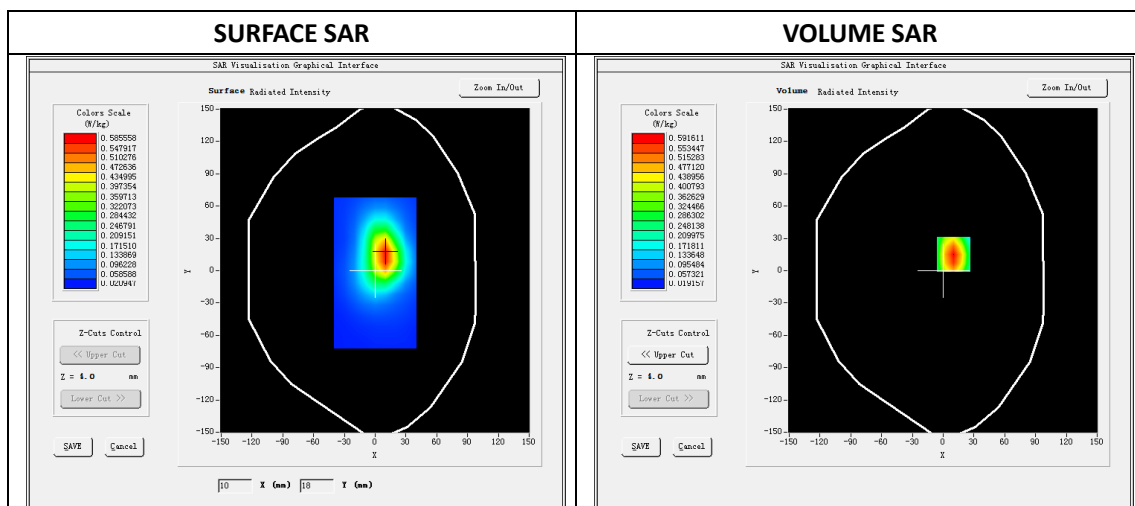
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge C
Band	LTE Band 2
Channels	18900
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

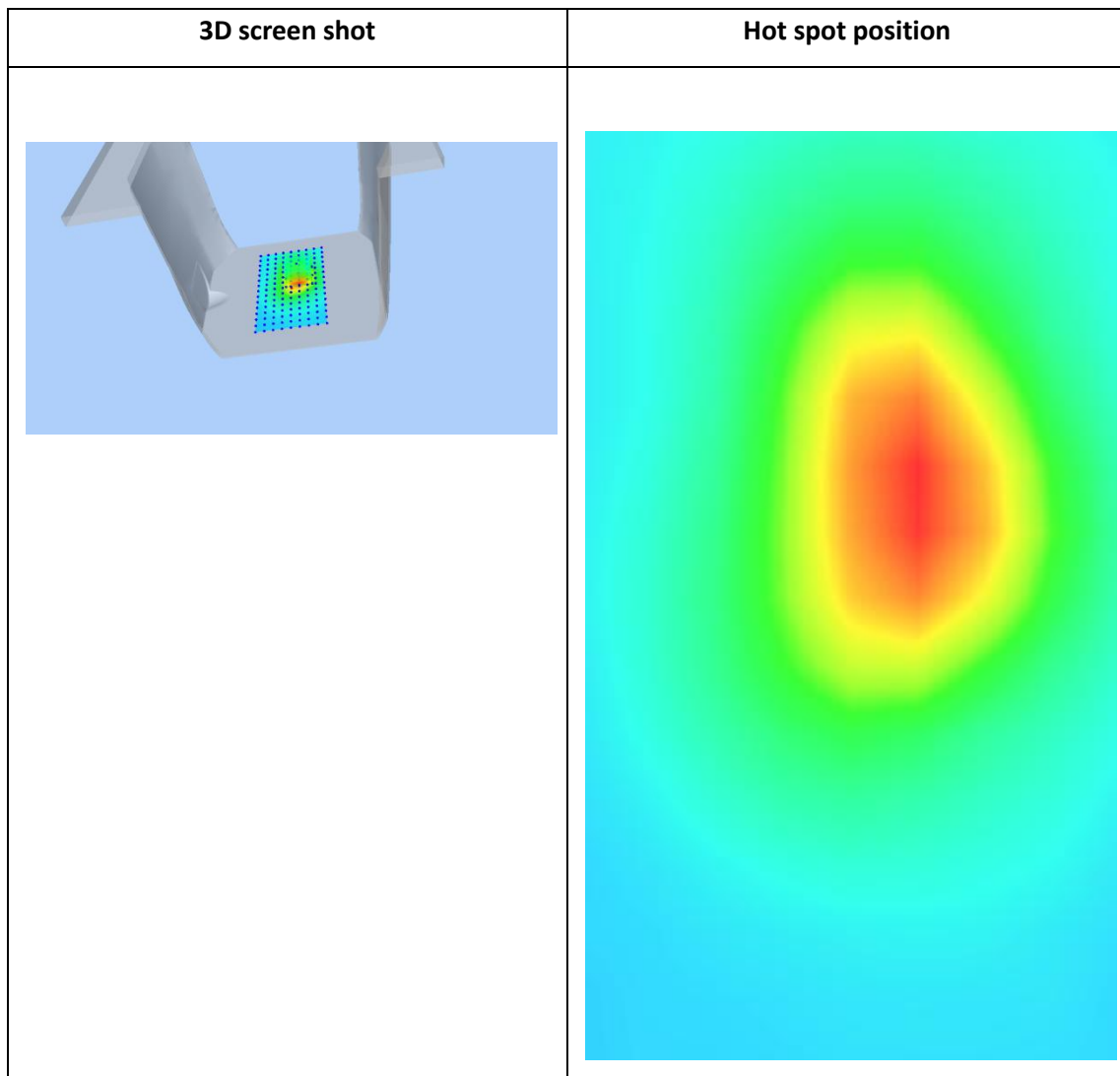
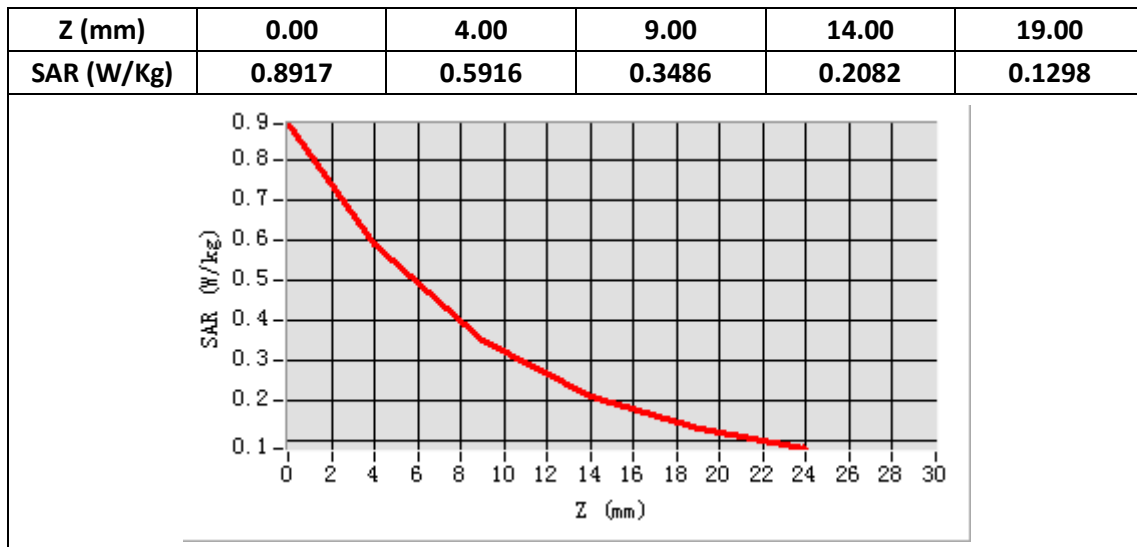
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1880
Relative permittivity (real part)	53.40
Relative permittivity (imaginary part)	14.49
Conductivity (S/m)	1.53
Variation (%)	-2.71
ConvF:	2.39



Maximum location: X=10.00, Y=15.00

SAR Peak: 0.89W/kg

SAR 10g (W/Kg)	0.308449
SAR 1g (W/Kg)	0.552199



Plot 16: LTE Band4, 20MHz,Right Cheek, Middle

Type: Phone measurement

Date of measurement: 04/17/2019

Measurement duration: 22 minutes 15 seconds

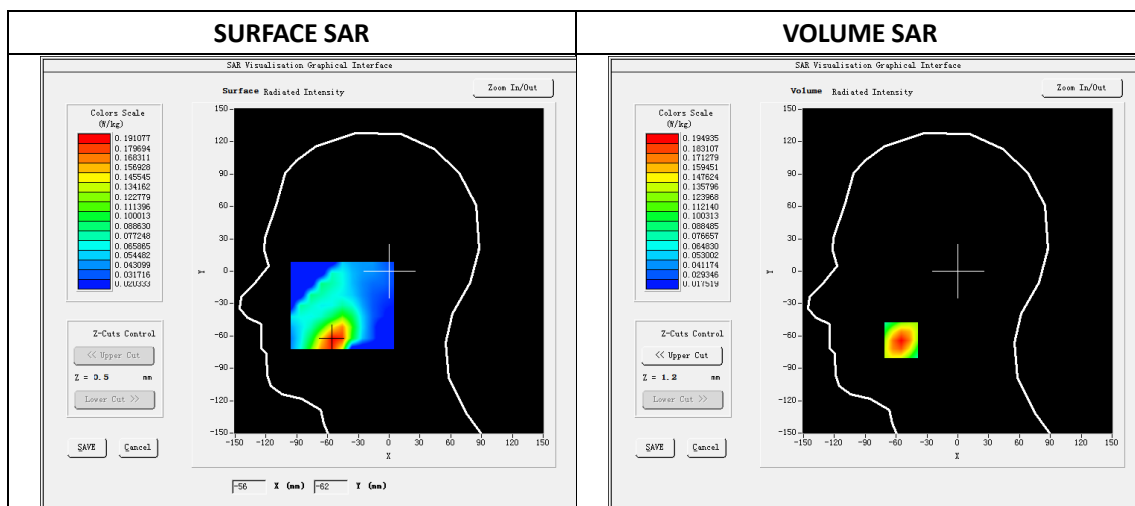
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Right Cheek
Band	LTE Band 4
Channels	20175
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

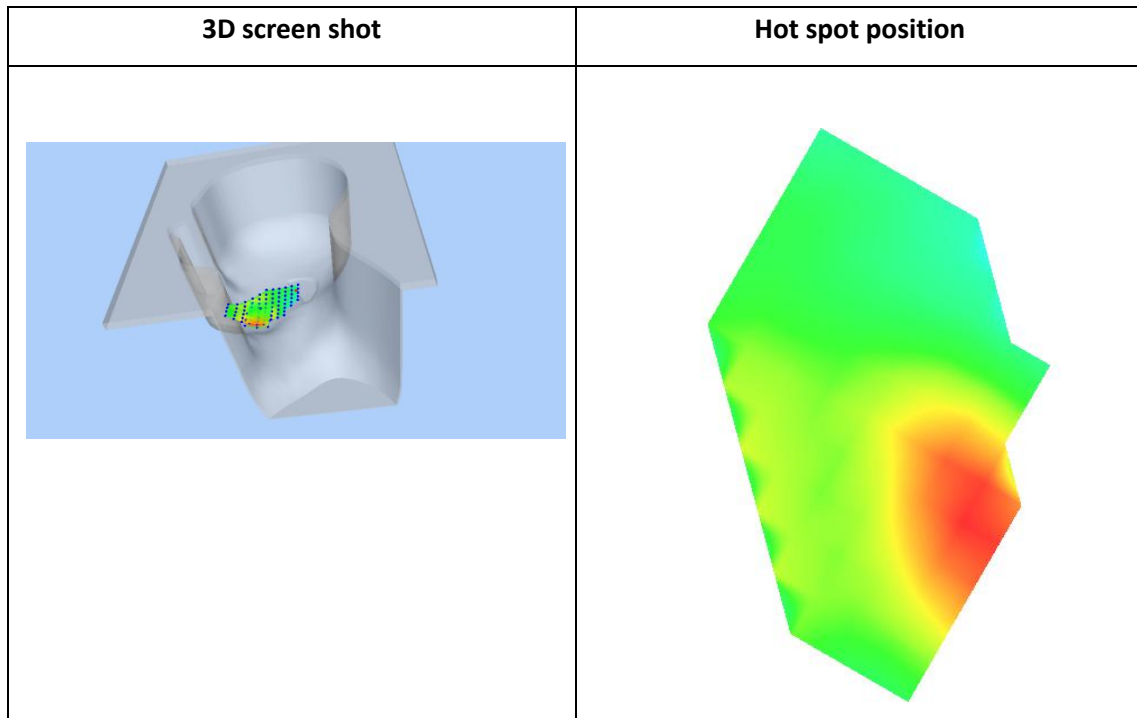
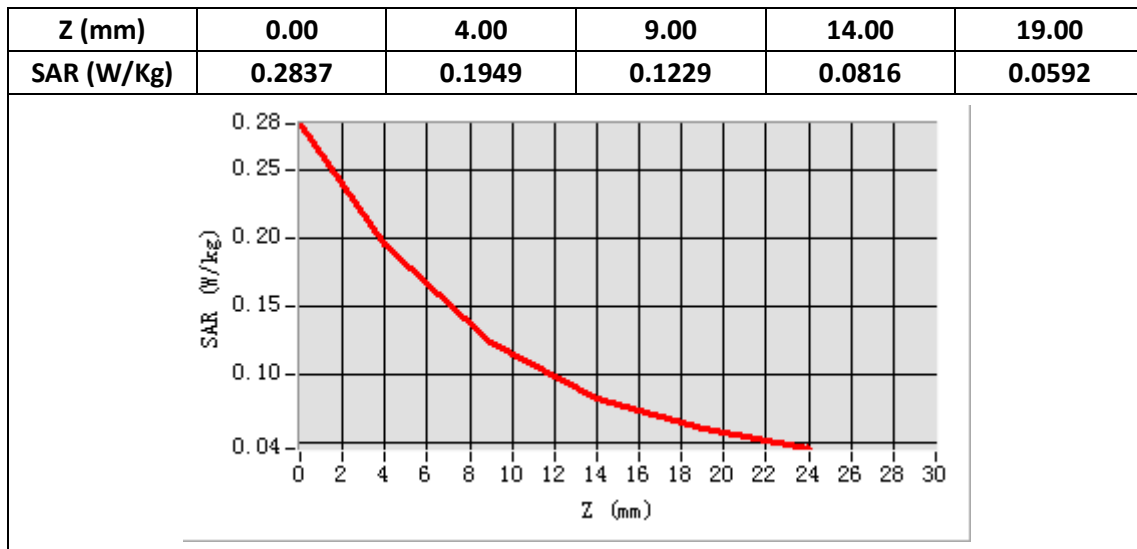
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.5
Relative permittivity (real part)	40.34
Relative permittivity (imaginary part)	13.10
Conductivity (S/m)	1.31
Variation (%)	-3.25
ConvF:	2.14



Maximum location: X=-55.00, Y=-64.00

SAR Peak: 0.28 W/kg

SAR 10g (W/Kg)	0.115266
SAR 1g (W/Kg)	0.187957



Plot 17: LTE Band4, 20MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 04/17/2019

Measurement duration: 22 minutes 31 seconds

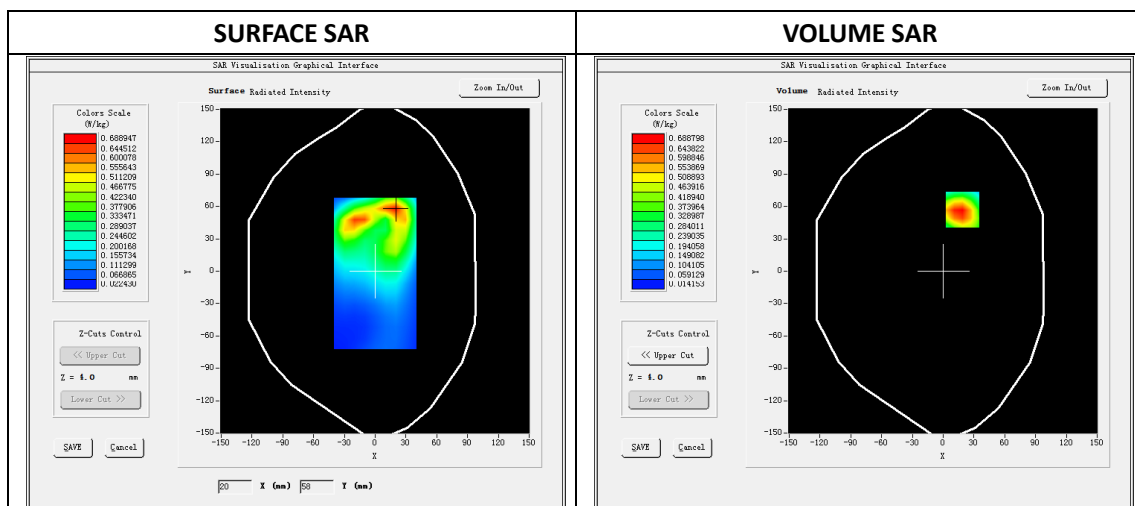
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	LTE Band 4
Channels	20175
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

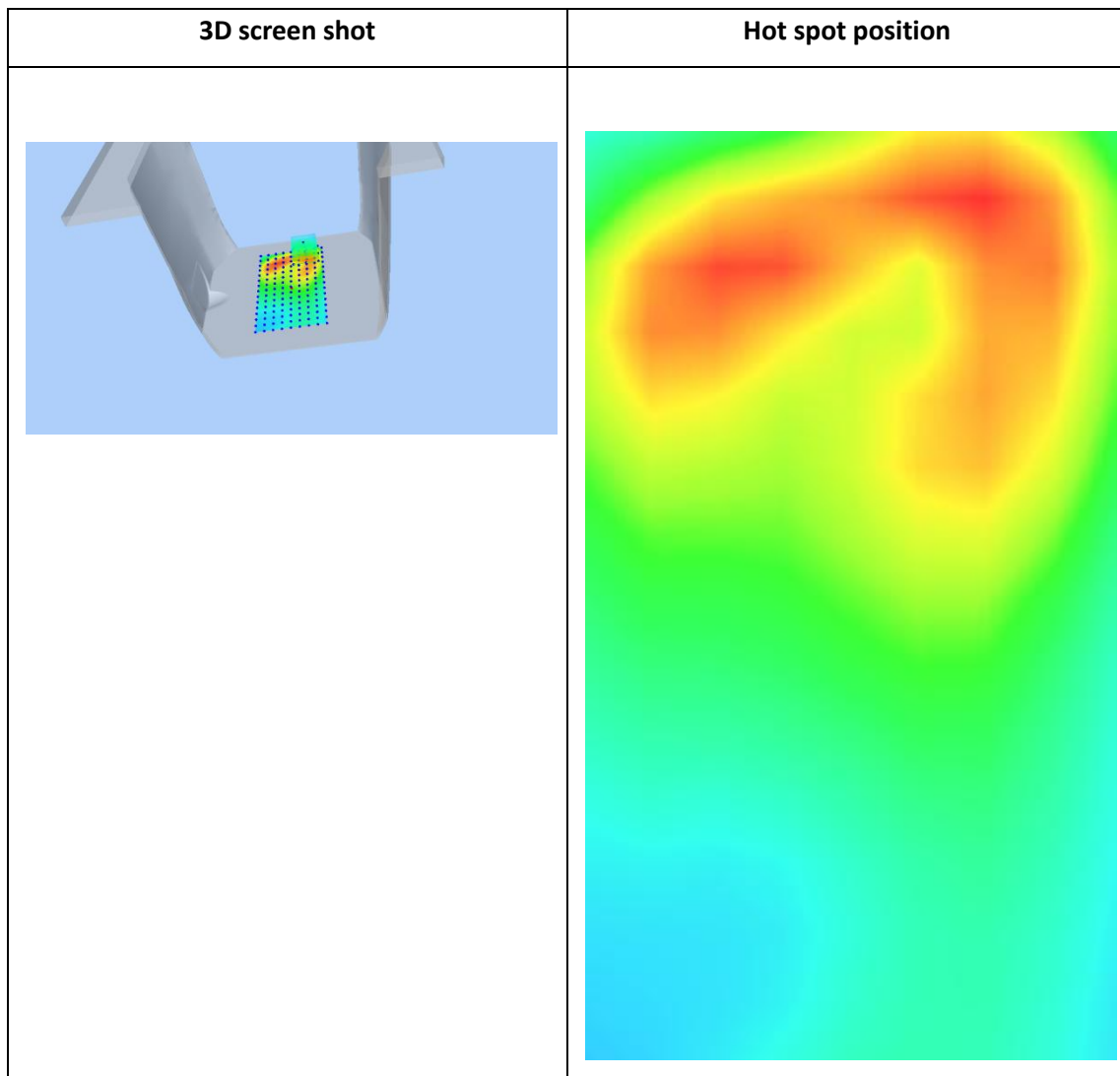
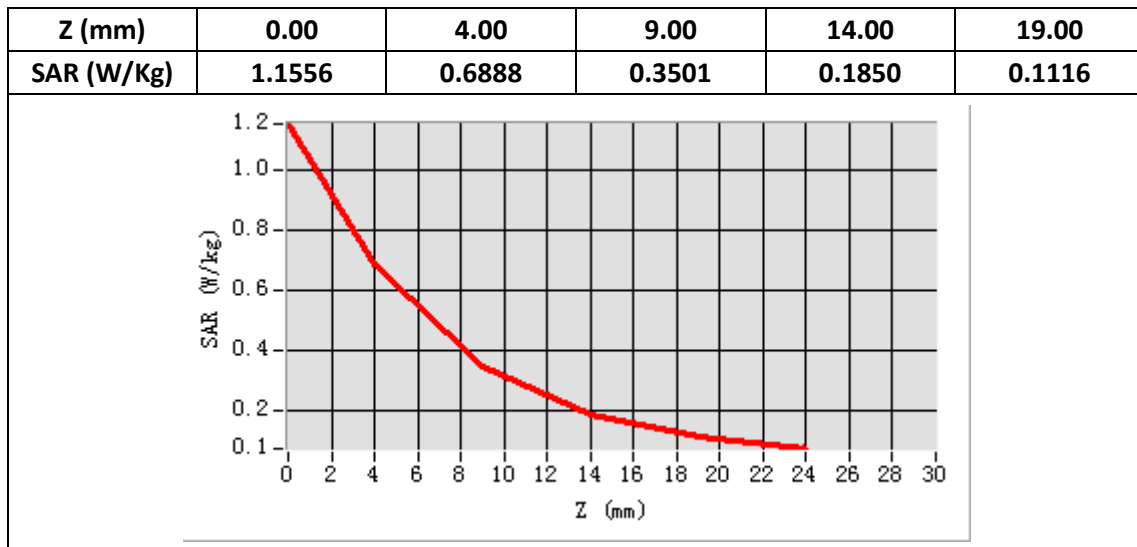
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.5
Relative permittivity (real part)	53.39
Relative permittivity (imaginary part)	15.20
Conductivity (S/m)	1.52
Variation (%)	-0.89
ConvF:	2.22



Maximum location: X=19.00, Y=57.00

SAR Peak: 1.18 W/kg

SAR 10g (W/Kg)	0.347908
SAR 1g (W/Kg)	0.662809



Plot 18 LTE Band5, 10MHz,Right Cheek, Middle

Type: Phone measurement

Date of measurement: 04/16/2019

Measurement duration: 22 minutes 12 econds

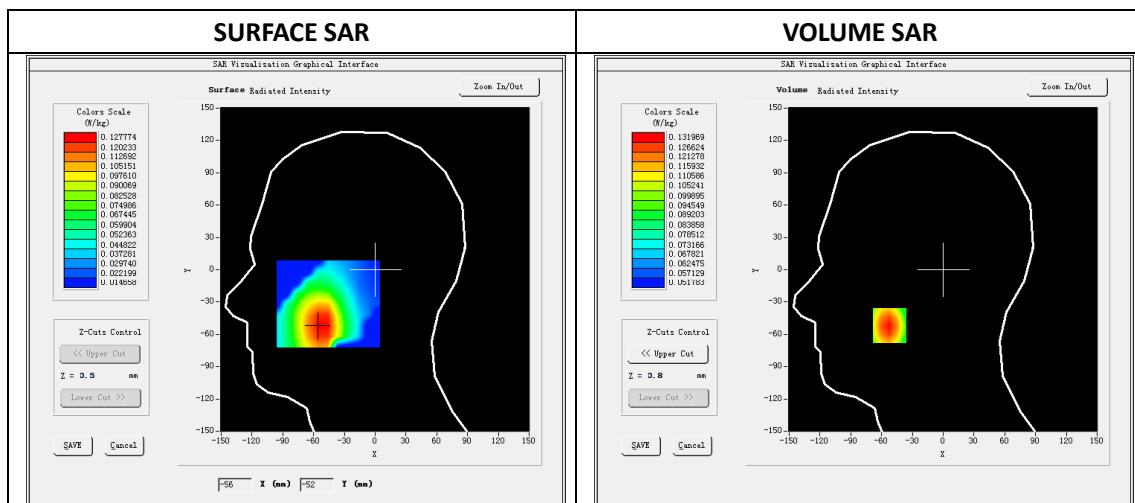
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Right Cheek
Band	LTE Band 5
Channels	20525
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

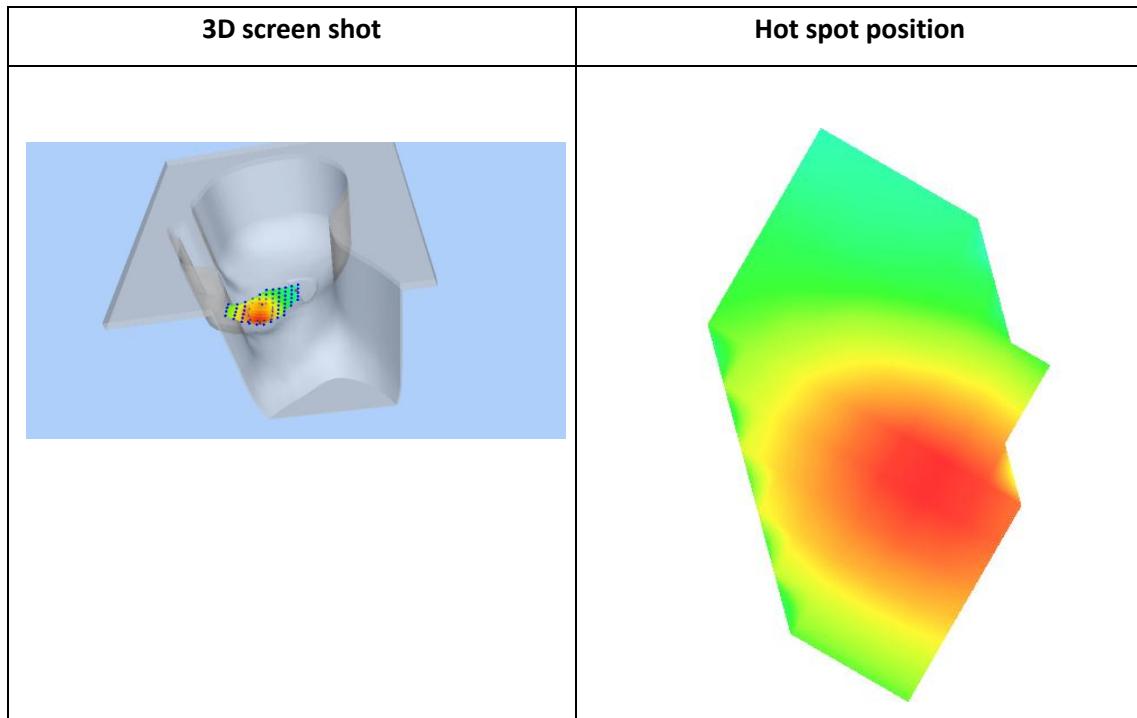
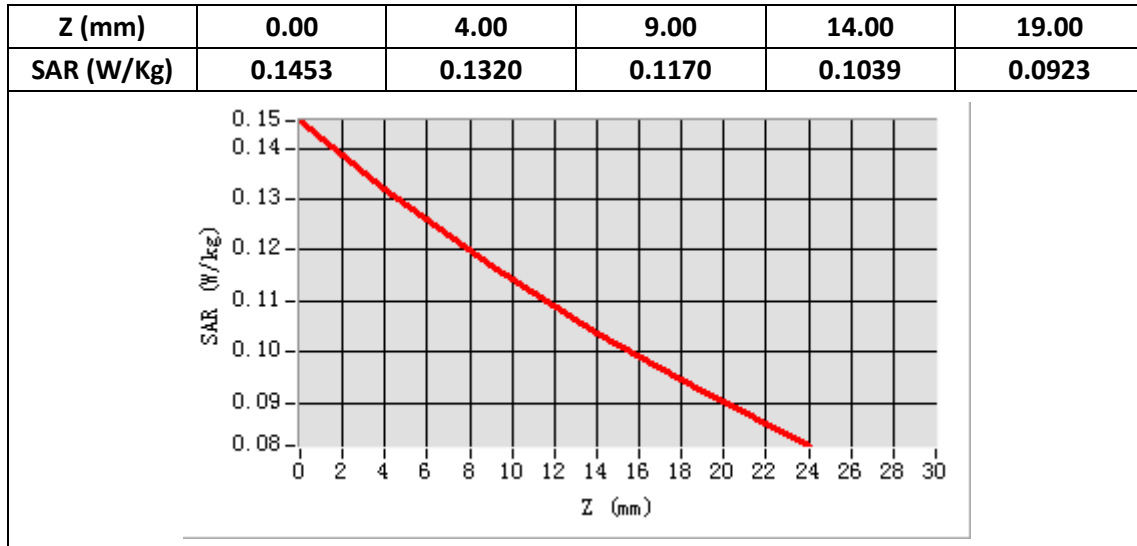
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.5
Relative permittivity (real part)	41.32
Relative permittivity (imaginary part)	18.42
Conductivity (S/m)	0.87
Variation (%)	-4.97
ConvF:	1.92



Maximum location: X=-52.00, Y=-52.00

SAR Peak: 0.15 W/kg

SAR 10g (W/Kg)	0.108038
SAR 1g (W/Kg)	0.130531



Plot 19 LTE Band5, 10MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 04/16/2019

Measurement duration: 22 minutes 37 seconds

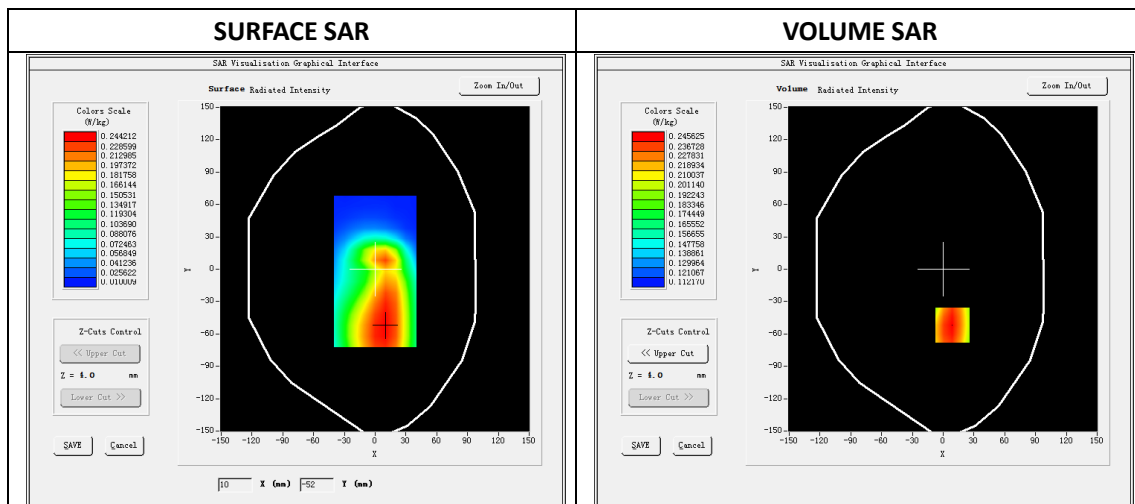
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	LTE Band 5
Channels	20525
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

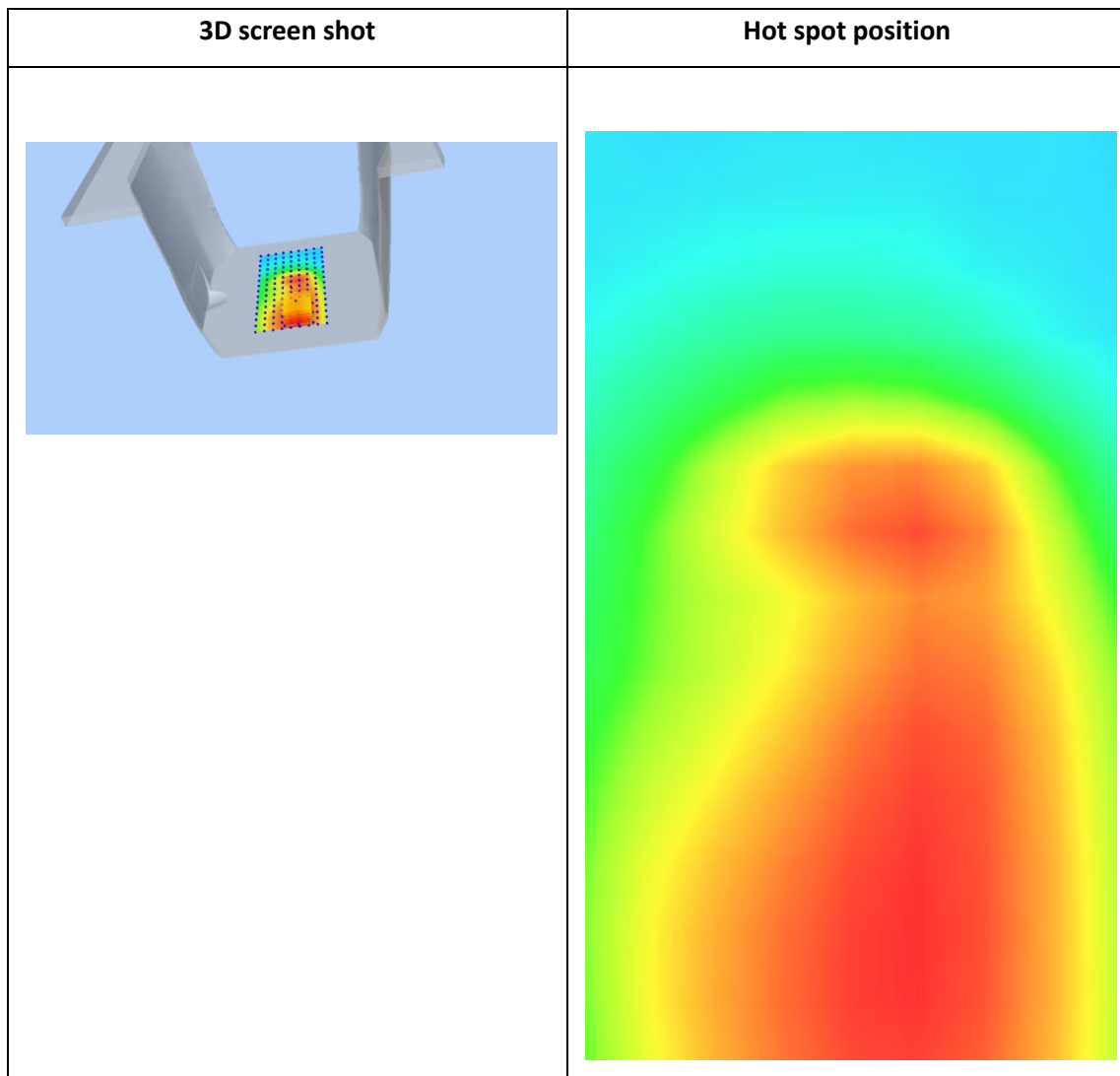
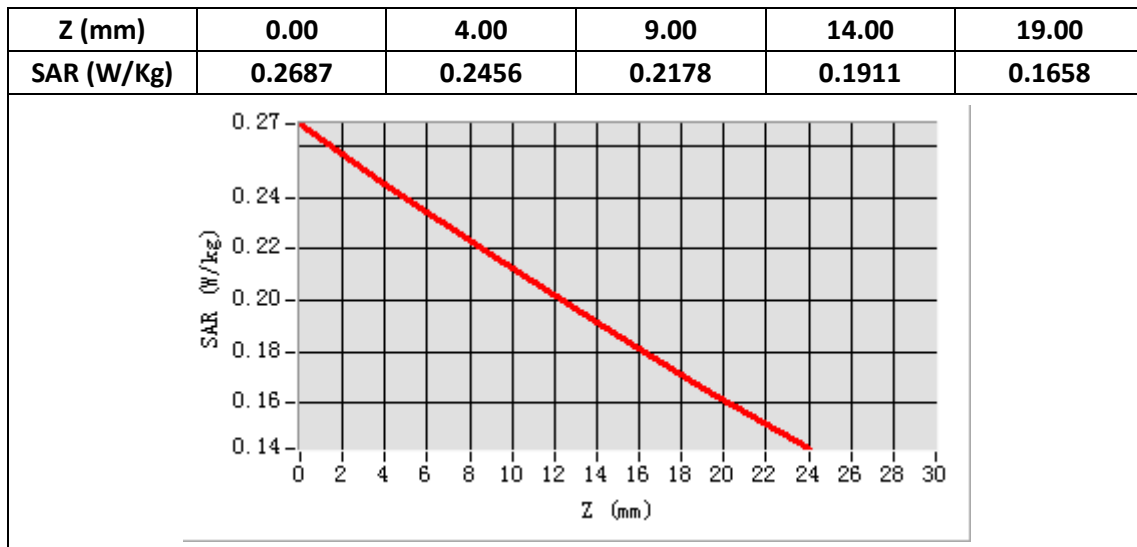
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	836.5
Relative permittivity (real part)	55.24
Relative permittivity (imaginary part)	20.96
Conductivity (S/m)	0.99
Variation (%)	-2.57
ConvF:	1.99



Maximum location: X=9.00, Y=-52.00

SAR Peak: 0.27W/kg

SAR 10g (W/Kg)	0.204374
SAR 1g (W/Kg)	0.244024



Plot 20: LTE Band7, 20MHz,Left Cheek, Middle

Type: Phone measurement

Date of measurement: 04/20/2019

Measurement duration: 22 minutes 11 seconds

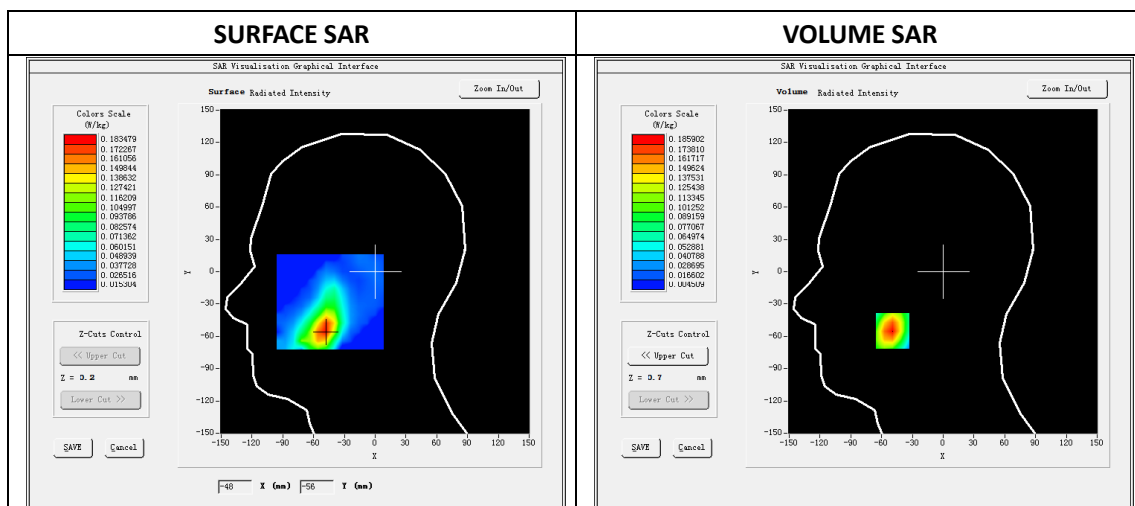
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=5mm,dy=5mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Left Cheek
Band	LTE Band 7
Channels	21100
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

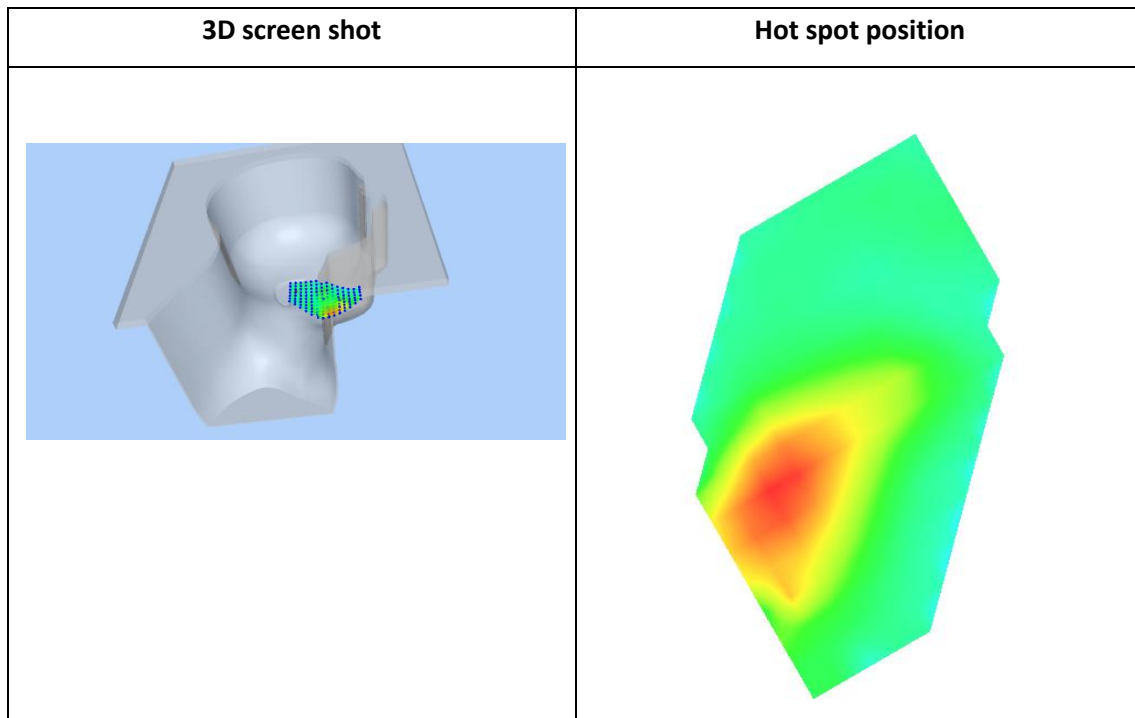
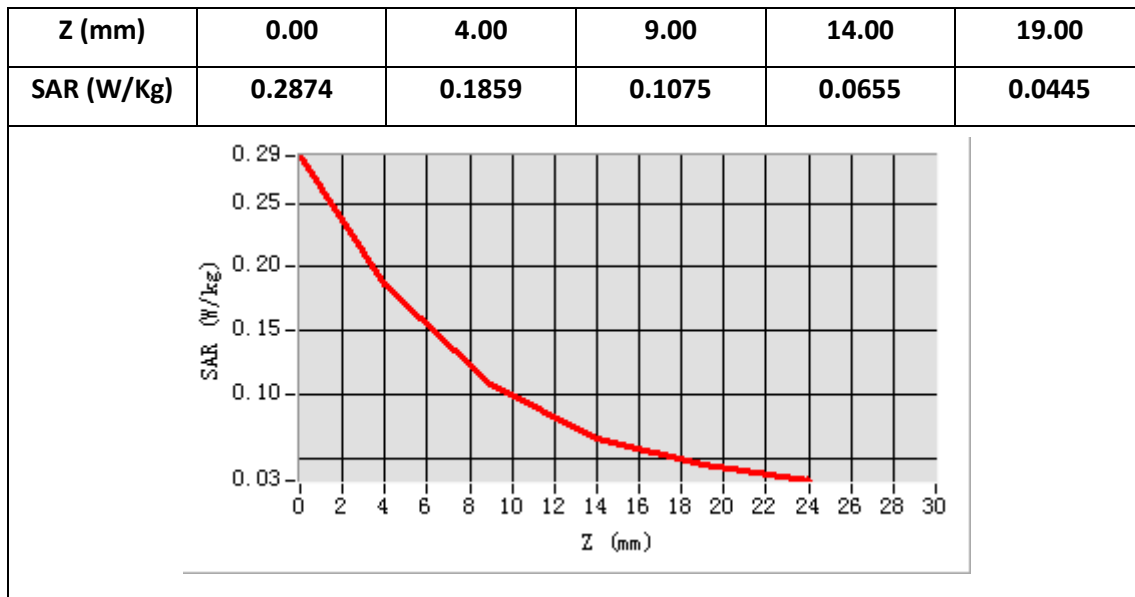
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2535
Relative permittivity (real part)	39.12
Relative permittivity (imaginary part)	13.71
Conductivity (S/m)	1.98
Variation (%)	-3.31
ConvF:	2.35



Maximum location: X=-49.00 Y=-55.00

SAR Peak: 0.29W/kg

SAR 10g (W/Kg)	0.097473
SAR 1g (W/Kg)	0.174763



Plot 21 LTE Band7, 20MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 04/20/2019

Measurement duration: 22 minutes 12 seconds

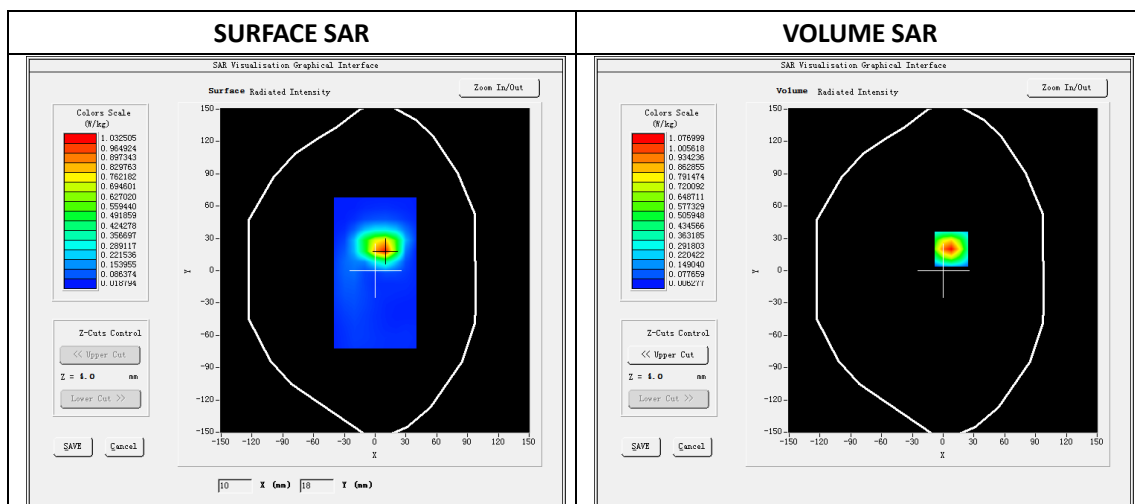
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=5mm,dy=5mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Back
Band	LTE Band 7
Channels	21100
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2535
Relative permittivity (real part)	52.35
Relative permittivity (imaginary part)	14.68
Conductivity (S/m)	2.12
Variation (%)	-4.29
ConvF:	2.43

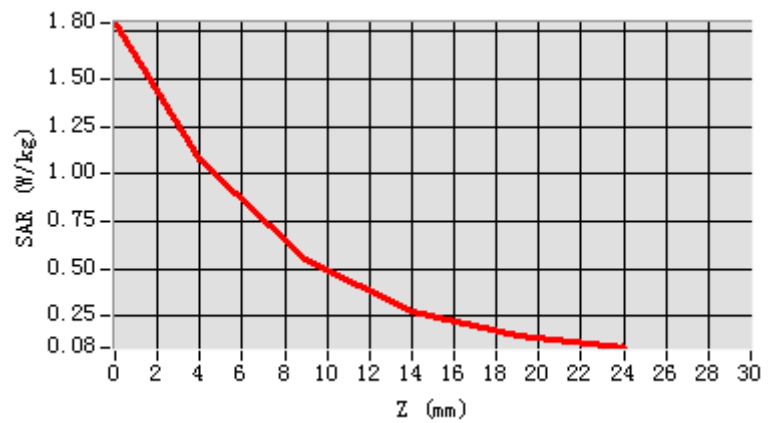


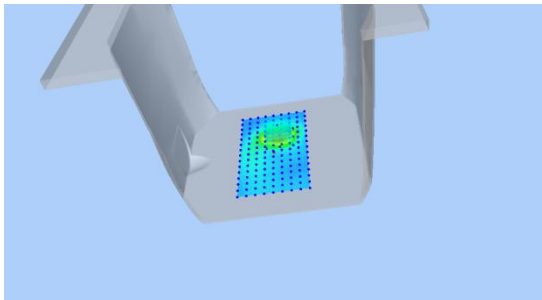
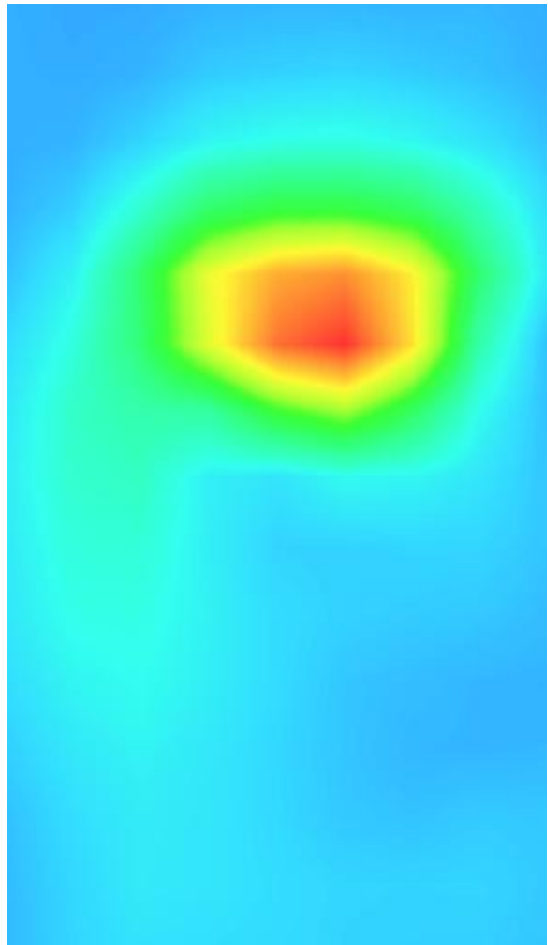
Maximum location: X=8.00 Y=-20.00

SAR Peak: 1.81 W/kg

SAR 10g (W/Kg)	0.461008
SAR 1g (W/Kg)	0.989356

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.7954	1.0770	0.5454	0.2767	0.1505



3D screen shot	Hot spot position
	

Plot 22 LTE Band12, 10MHz, Left Cheek, Middle

Type: Phone measurement

Date of measurement: 04/15/2019

Measurement duration: 22 minutes 26 seconds

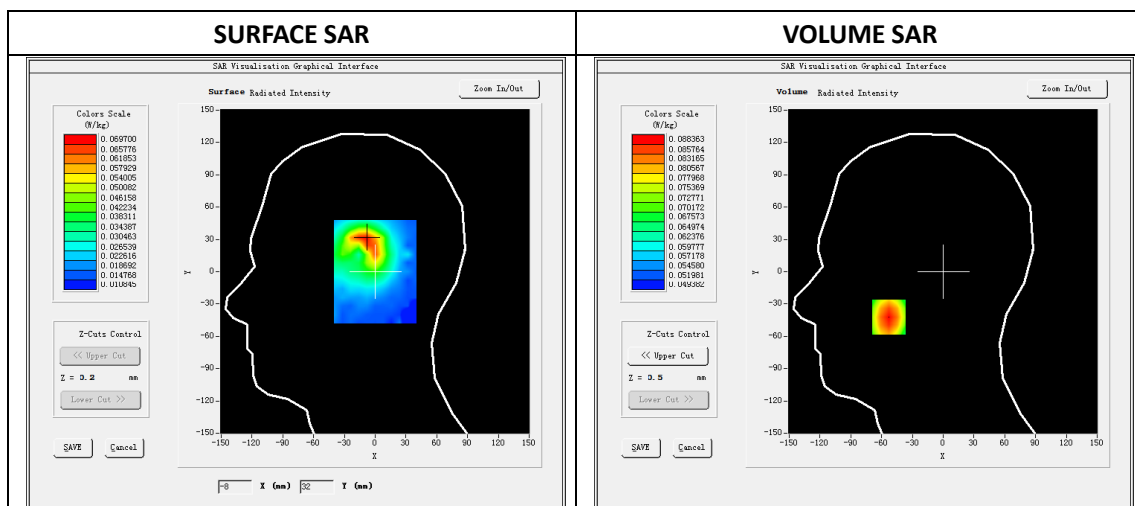
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Left Cheek
Band	LTE Band 12
Channels	23095
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

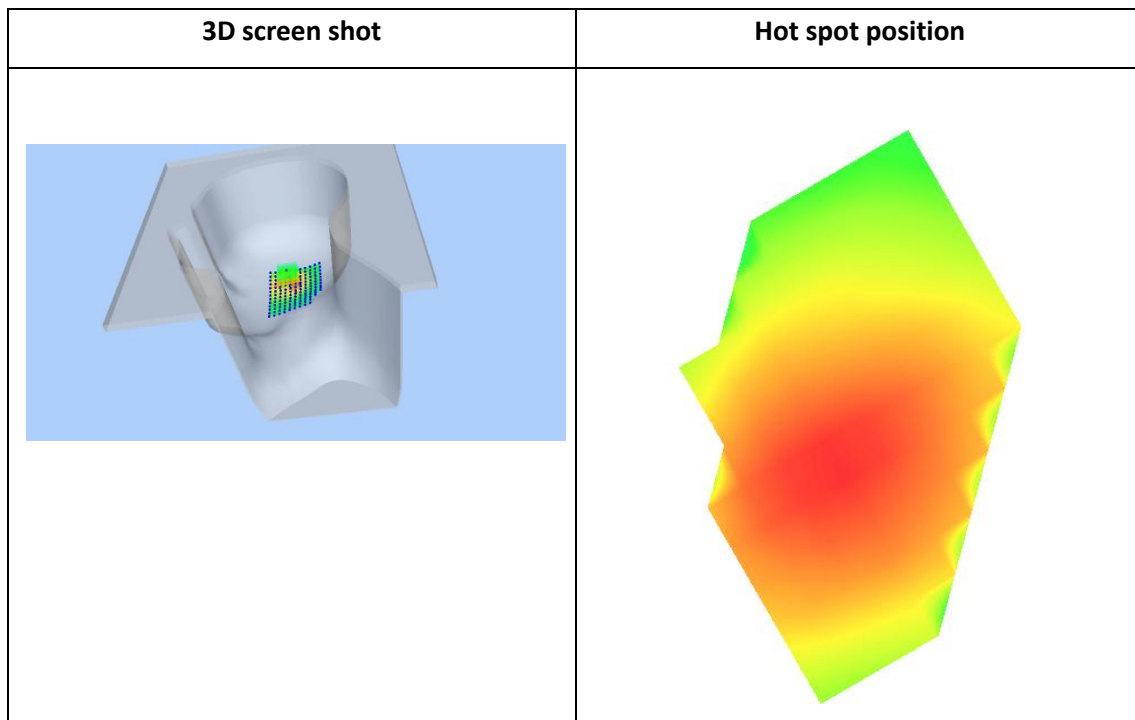
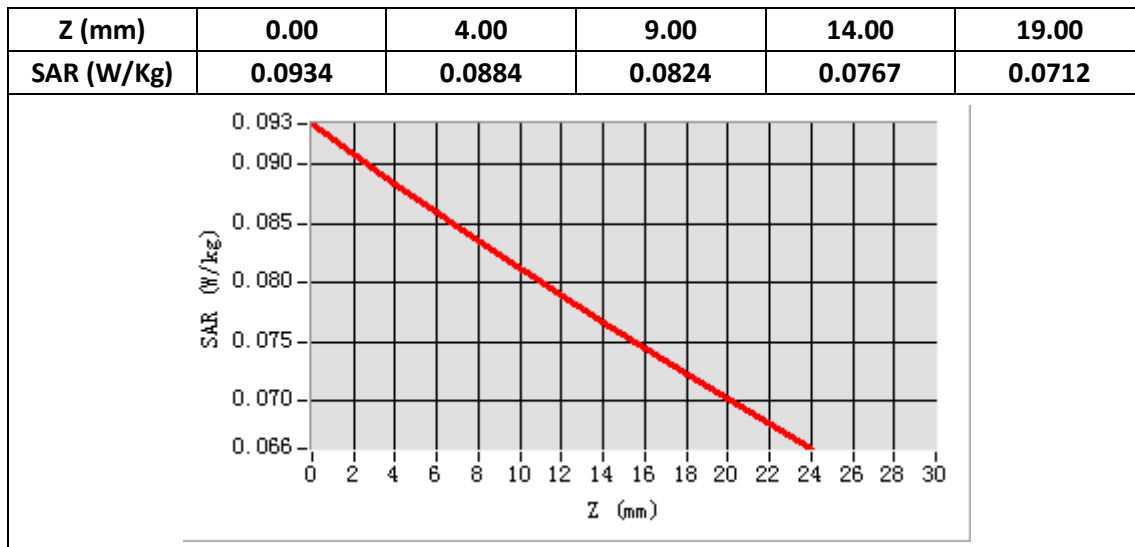
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	707.5
Relative permittivity (real part)	41.97
Relative permittivity (imaginary part)	21.12
Conductivity (S/m)	0.88
Variation (%)	-4.43
ConvF:	1.87



Maximum location: X=-53.00 y=-42.00

SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.078243
SAR 1g (W/Kg)	0.088641



Plot 23 LTE Band12, 10MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 04/15/2019

Measurement duration: 22 minutes 12 seconds

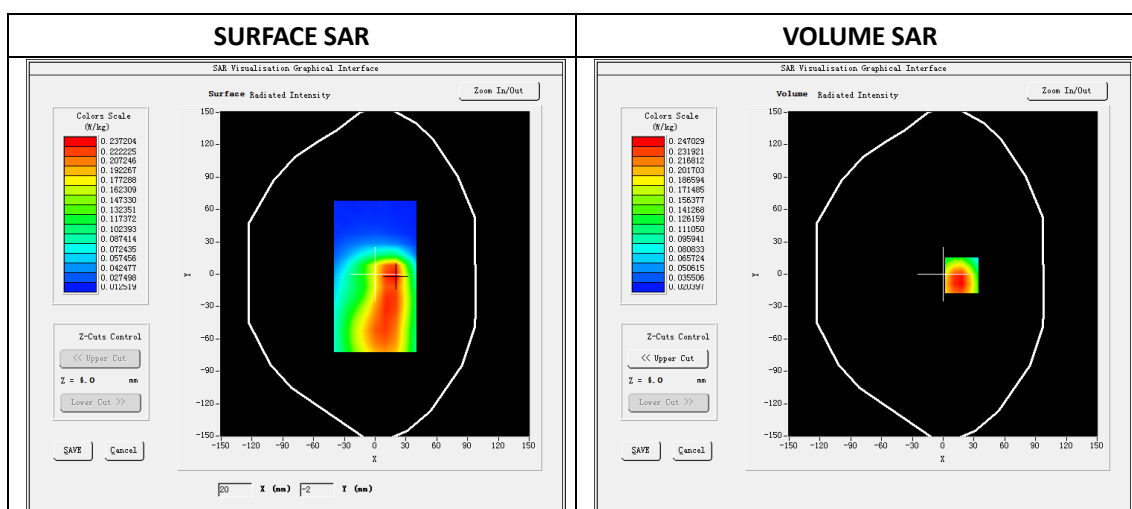
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	LTE Band 12
Channels	23095
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

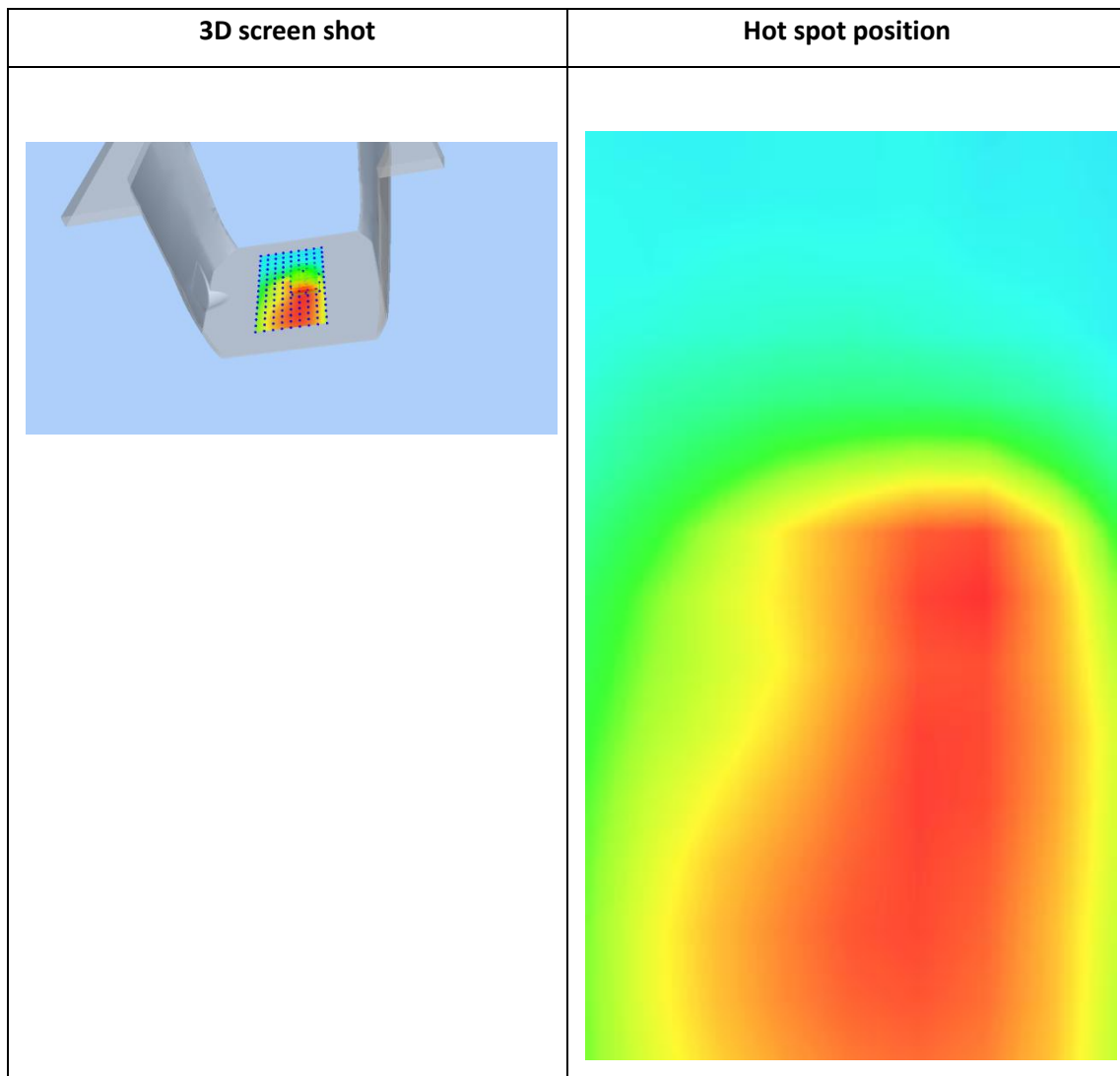
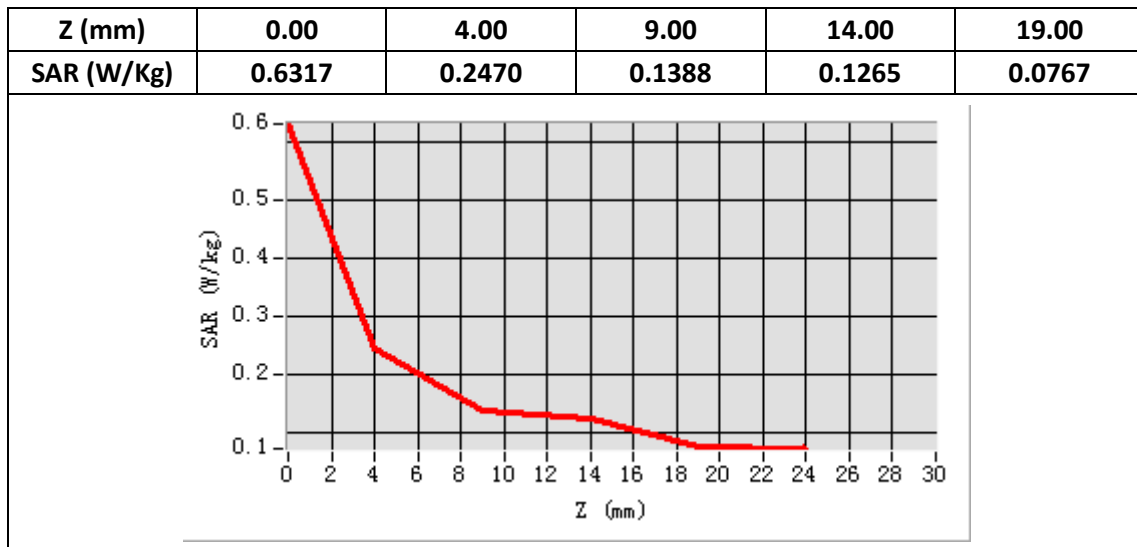
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	707.5
Relative permittivity (real part)	55.52
Relative permittivity (imaginary part)	23.52
Conductivity (S/m)	0.98
Variation (%)	-2.63
ConvF:	1.93



Maximum location: X=18.00 Y=-1.00

SAR Peak: 0.34 W/kg

SAR 10g (W/Kg)	0.162932
SAR 1g (W/Kg)	0.244762



Plot 24: LTE Band66, 20MHz, Left Cheek, Middle

Type: Phone measurement

Date of measurement: 04/17/2019

Measurement duration: 22 minutes 47 seconds

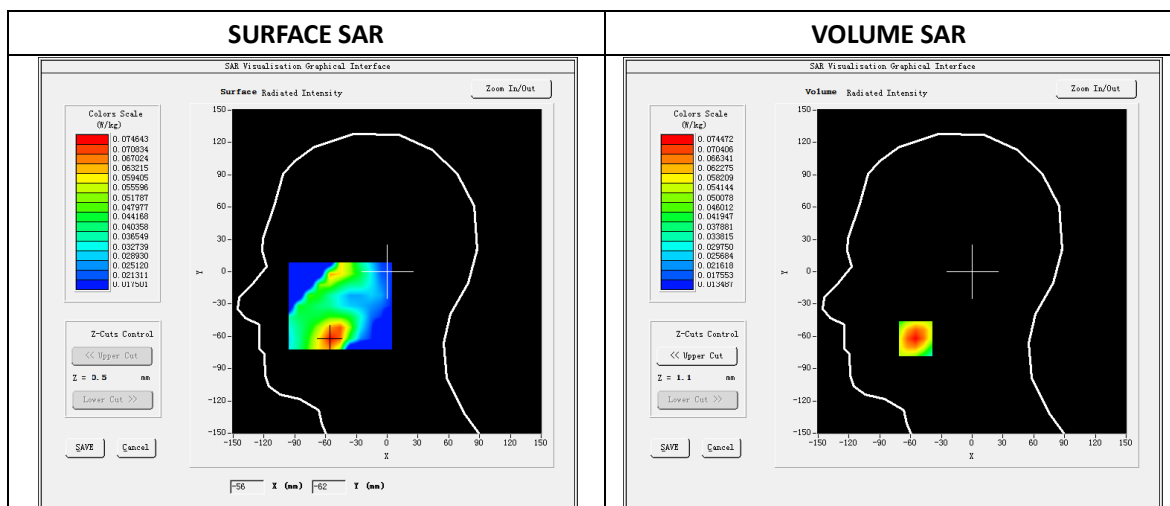
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Right Cheek
Band	LTE Band 66
Channels	132197
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

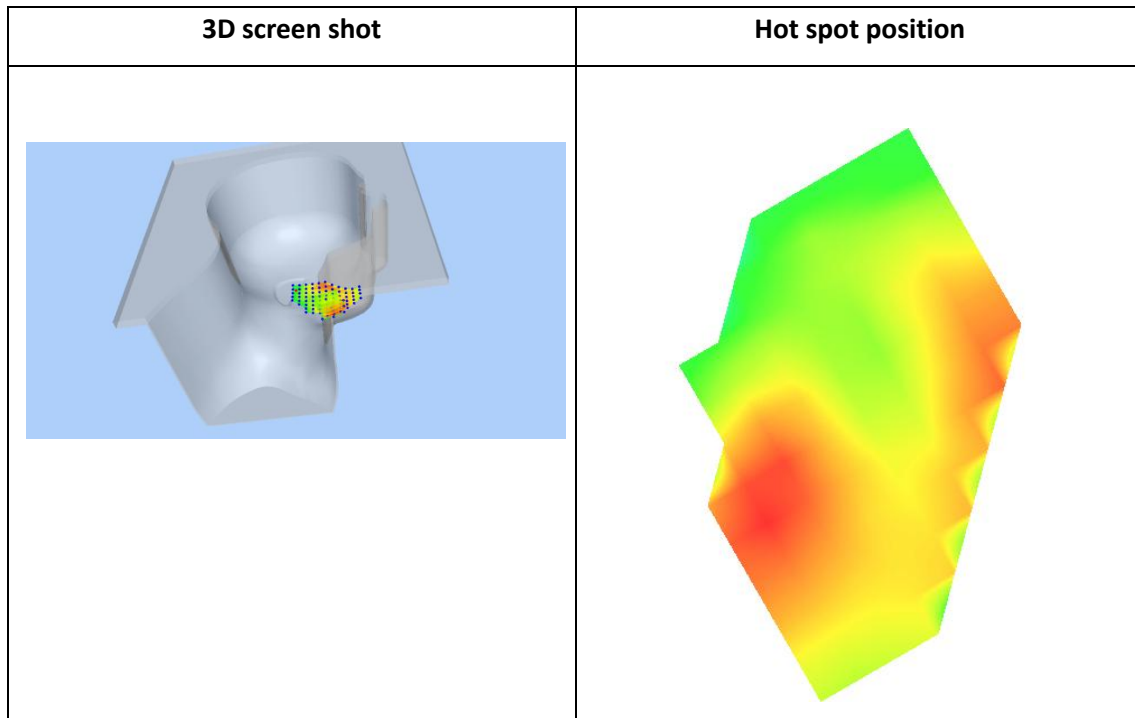
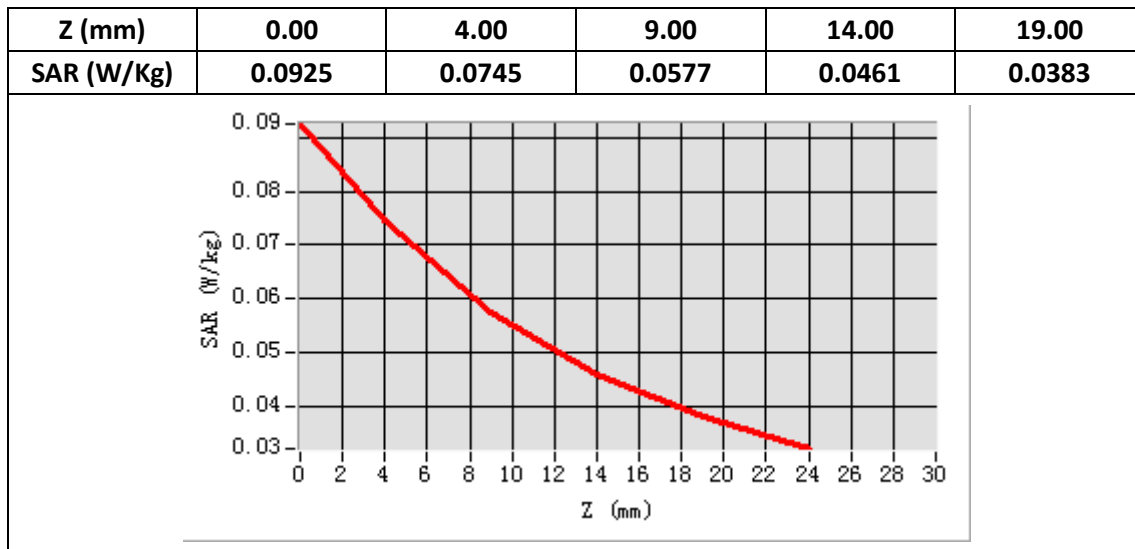
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.5
Relative permittivity (real part)	40.34
Relative permittivity (imaginary part)	13.10
Conductivity (S/m)	1.31
Variation (%)	-4.00
ConvF:	2.14



Maximum location: X=-55.00 Y=-62.00

SAR Peak: 0.09 W/kg

SAR 10g (W/Kg)	0.052442
SAR 1g (W/Kg)	0.072416



Plot 25: LTE Band66, 20MHz, Back, Middle,10mm

Type: Phone measurement

Date of measurement: 04/17/2019

Measurement duration: 22 minutes 44 seconds

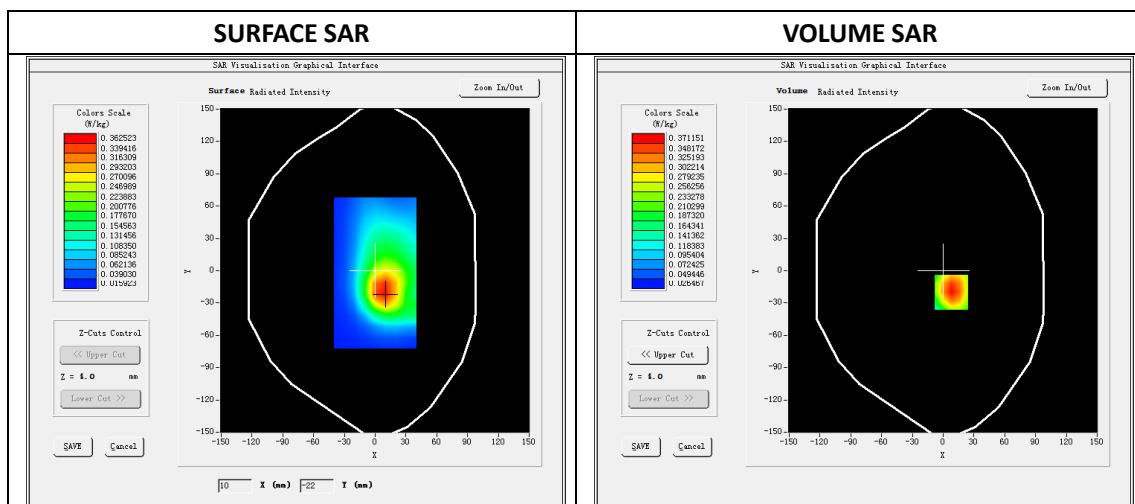
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back
Band	LTE Band 66
Channels	132197
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

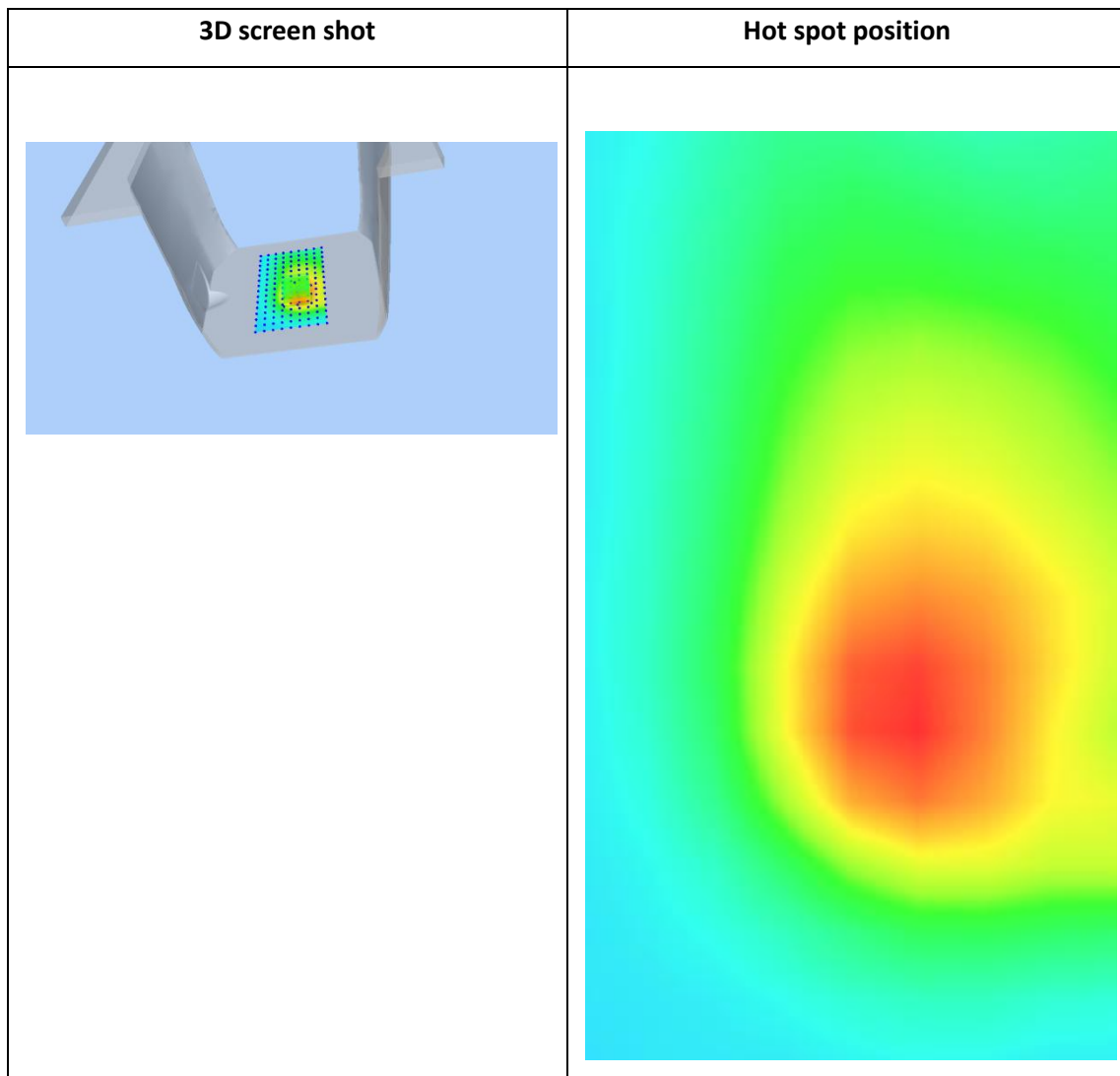
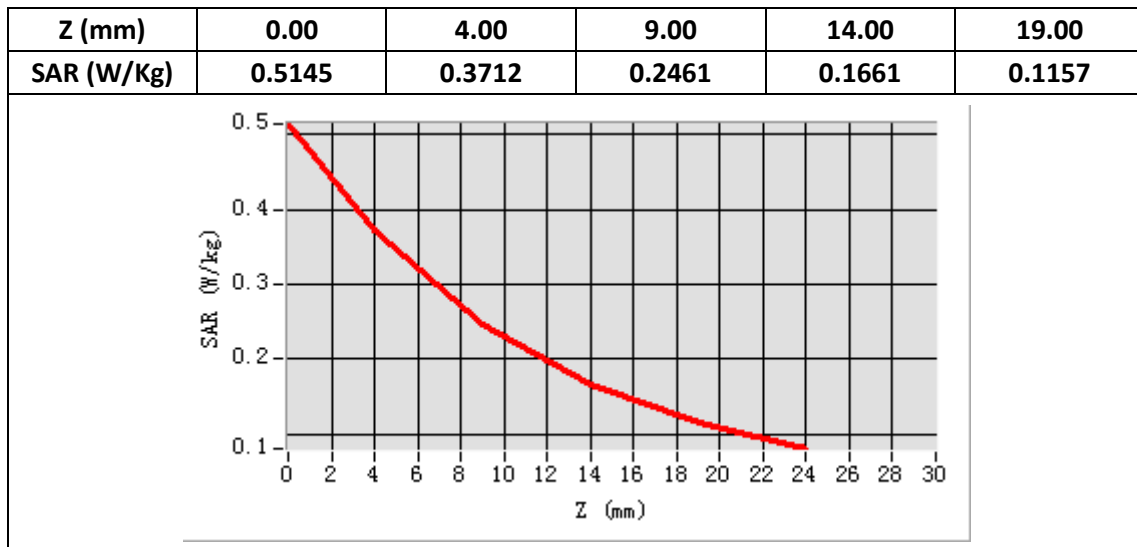
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.5
Relative permittivity (real part)	53.39
Relative permittivity (imaginary part)	15.20
Conductivity (S/m)	1.52
Variation (%)	-1.78
ConvF:	2.22



Maximum location: X=8.00 Y=-20.00

SAR Peak: 0.52W/kg

SAR 10g (W/Kg)	0.223088
SAR 1g (W/Kg)	0.357830



Plot 26: LTE Band66, 20MHz, Edge C, Middle,10mm

Type: Phone measurement

Date of measurement: 04/17/2019

Measurement duration: 22 minutes 29 seconds

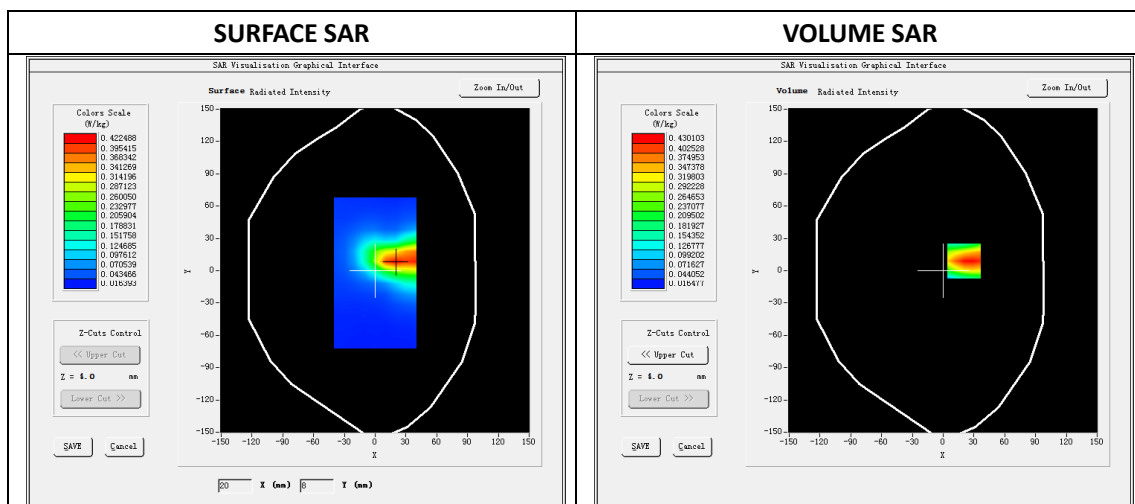
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Edge C
Band	LTE Band 66
Channels	132197
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

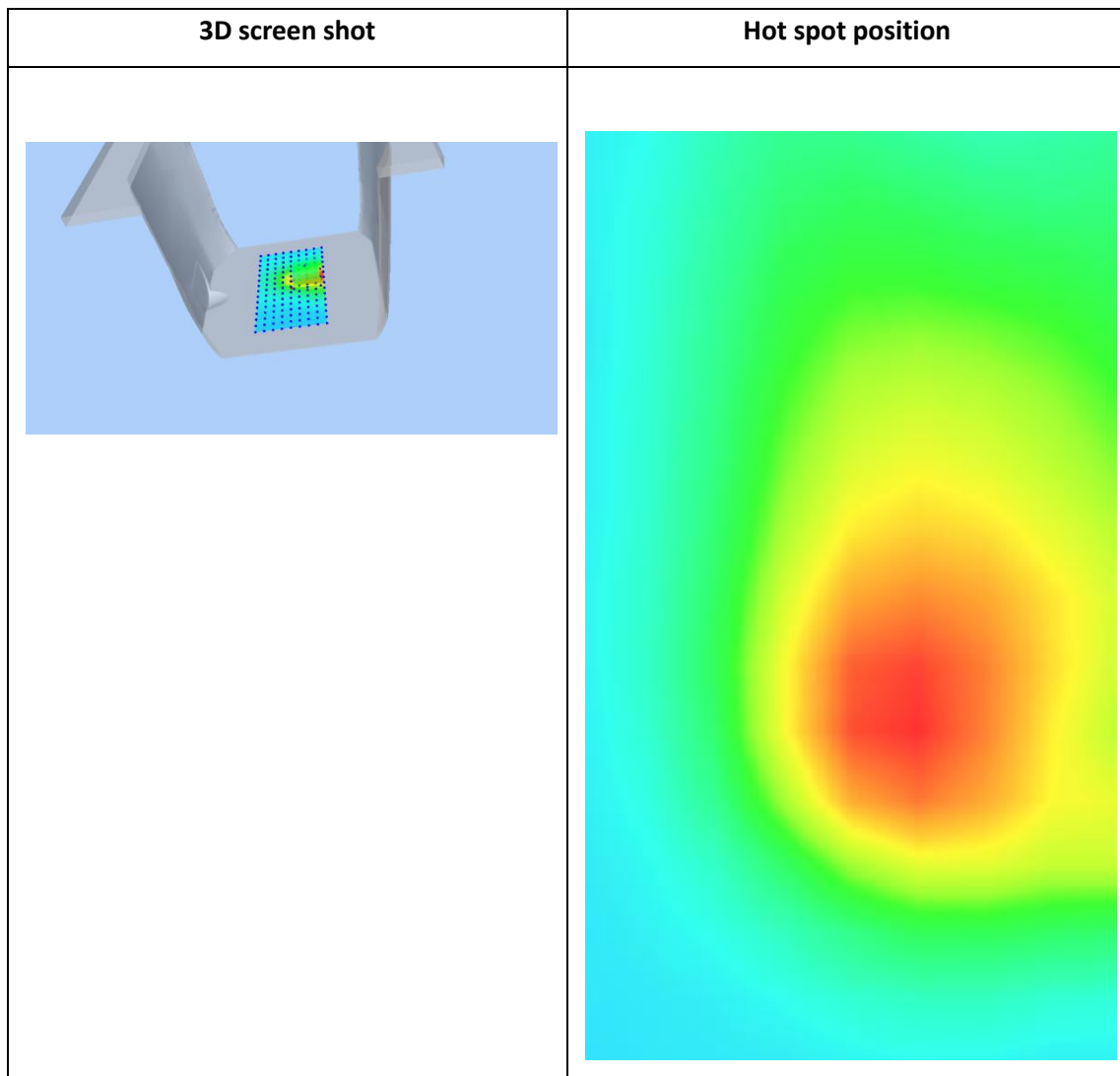
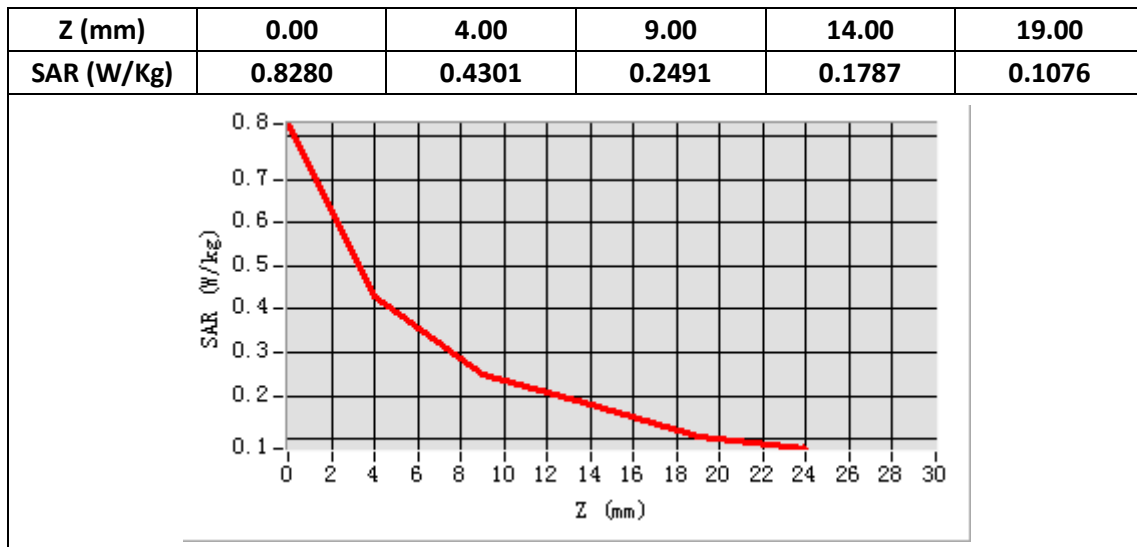
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	1732.5
Relative permittivity (real part)	53.39
Relative permittivity (imaginary part)	15.20
Conductivity (S/m)	1.52
Variation (%)	-2.95
ConvF:	2.22



Maximum location: X=20.00 Y=9.00

SAR Peak: 0.62 W/kg

SAR 10g (W/Kg)	0.242800
SAR 1g (W/Kg)	0.411322



Plot 27: Wi-Fi 802.11b Left Cheek, Middle

Type: Phone measurement

Date of measurement: 04/19/2019

Measurement duration: 22 minutes 53 seconds

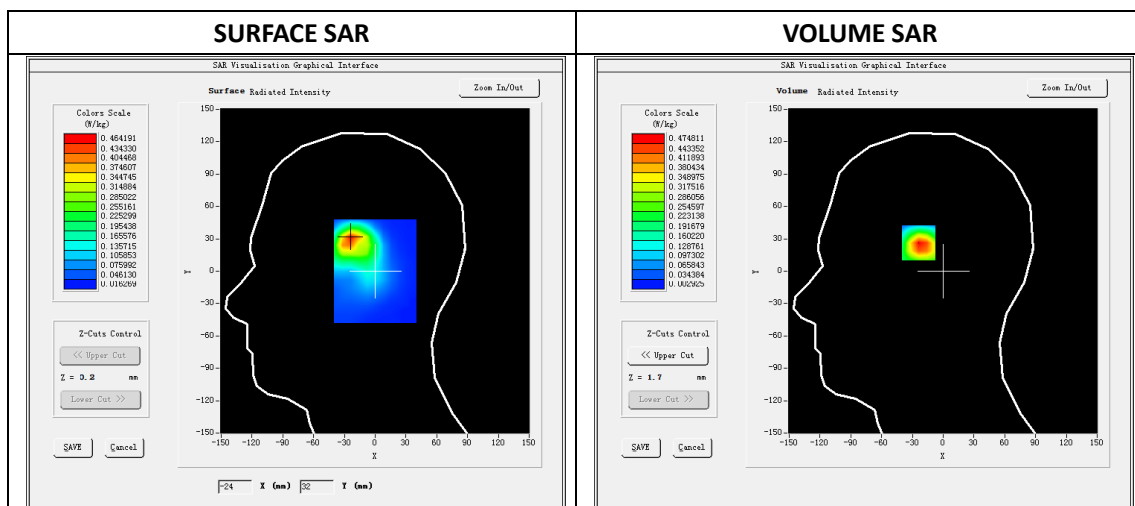
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=5mm,dy=5mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Left Cheek
Band	WIFI
Channels	6
Signal	DSSS (Duty cycle: 1:1)

B. SAR Measurement Results

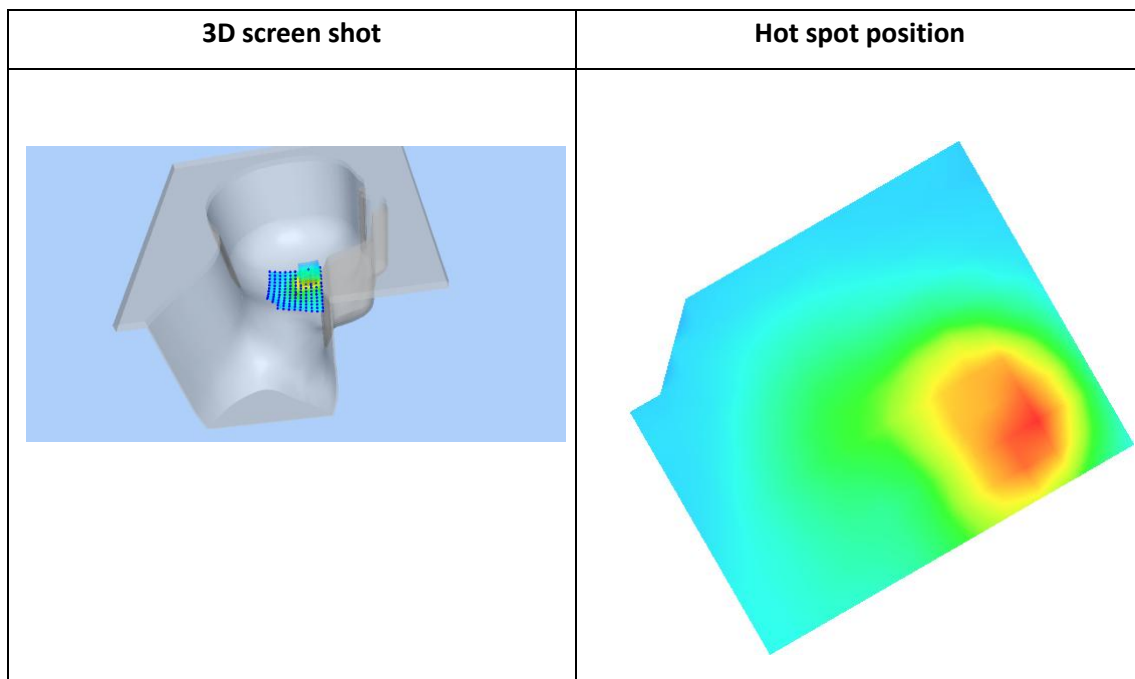
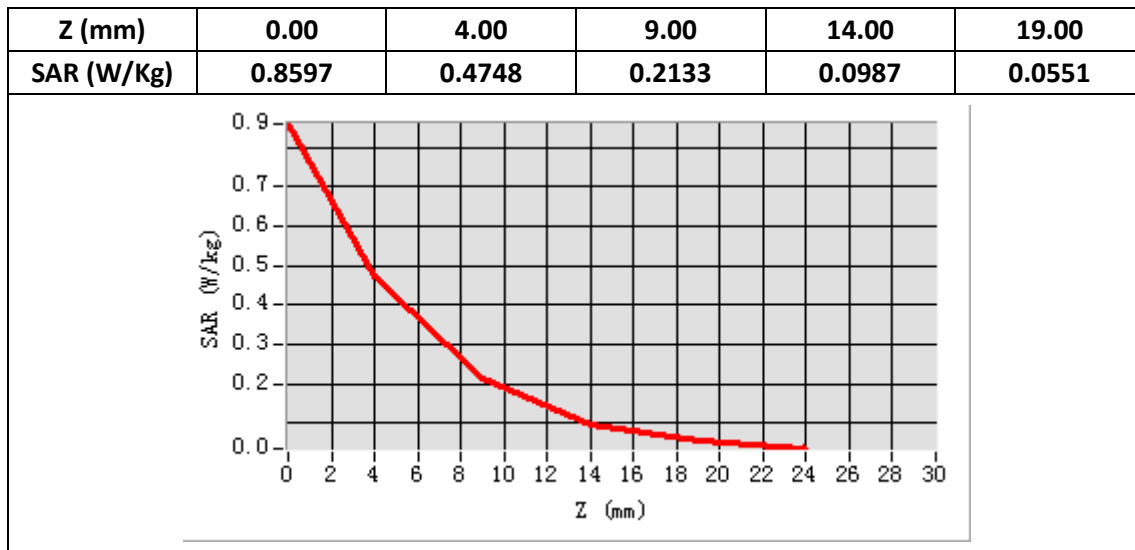
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2437
Relative permittivity (real part)	39.34
Relative permittivity (imaginary part)	13.37
Conductivity (S/m)	1.82
Variation (%)	-1.25
ConvF:	2.37



Maximum location: X=-24.00 Y=30.00

SAR Peak: 0.89 W/kg

SAR 10g (W/Kg)	0.219617
SAR 1g (W/Kg)	0.464721



Plot 28: Wi-Fi 802.11b, Back ,Middle, 10mm

Type: Phone measurement

Date of measurement: 04/19/2019

Measurement duration: 22 minutes 28 seconds

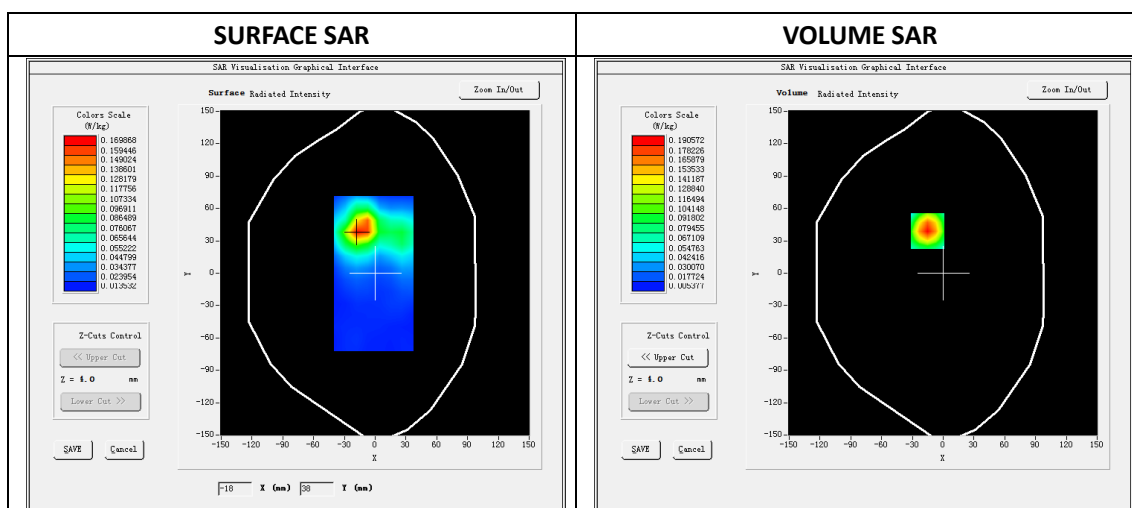
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=5mm,dy=5mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Back
Band	WIFI
Channels	6
Signal	DSSS (Duty cycle: 1:1)

B. SAR Measurement Results

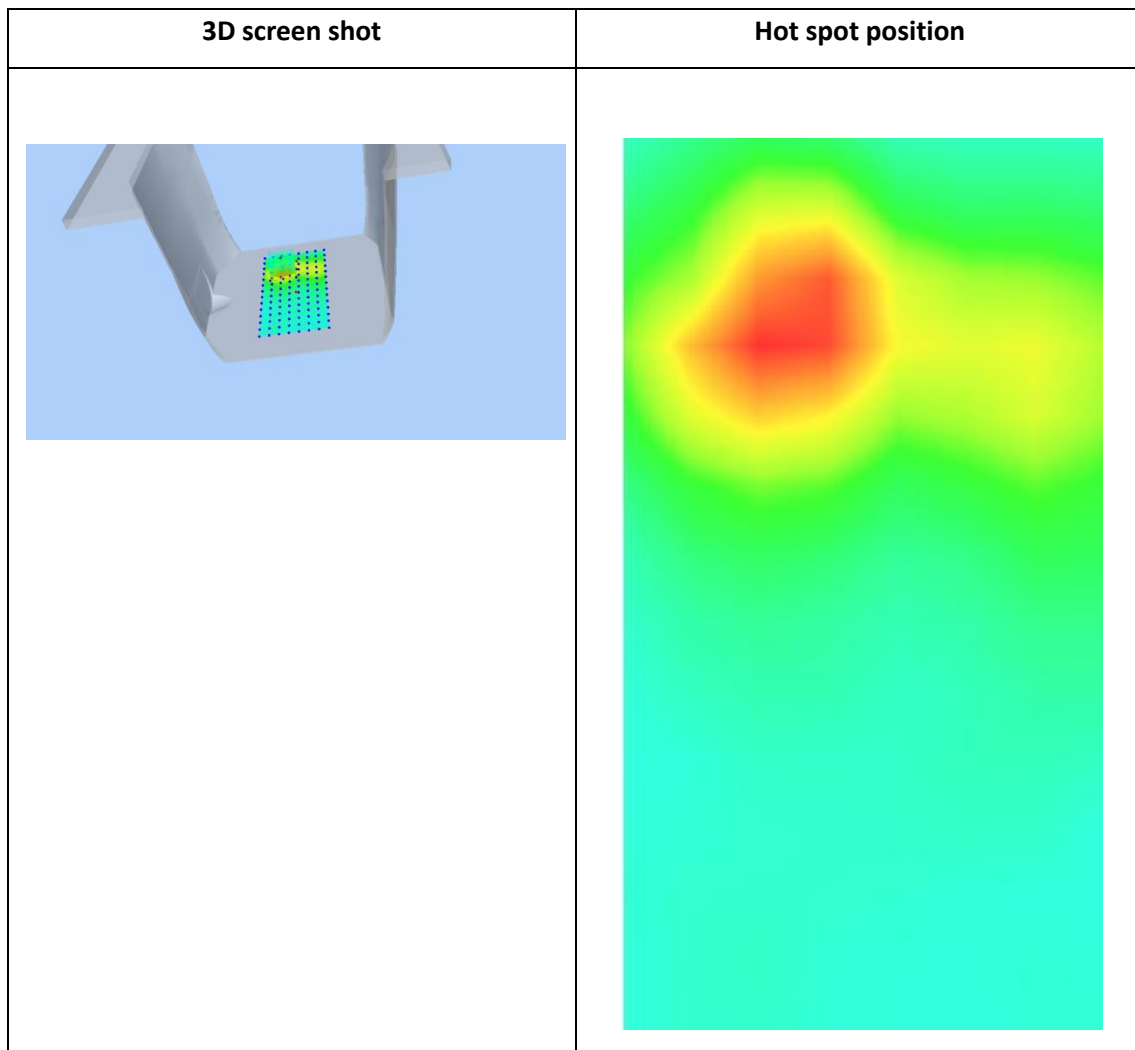
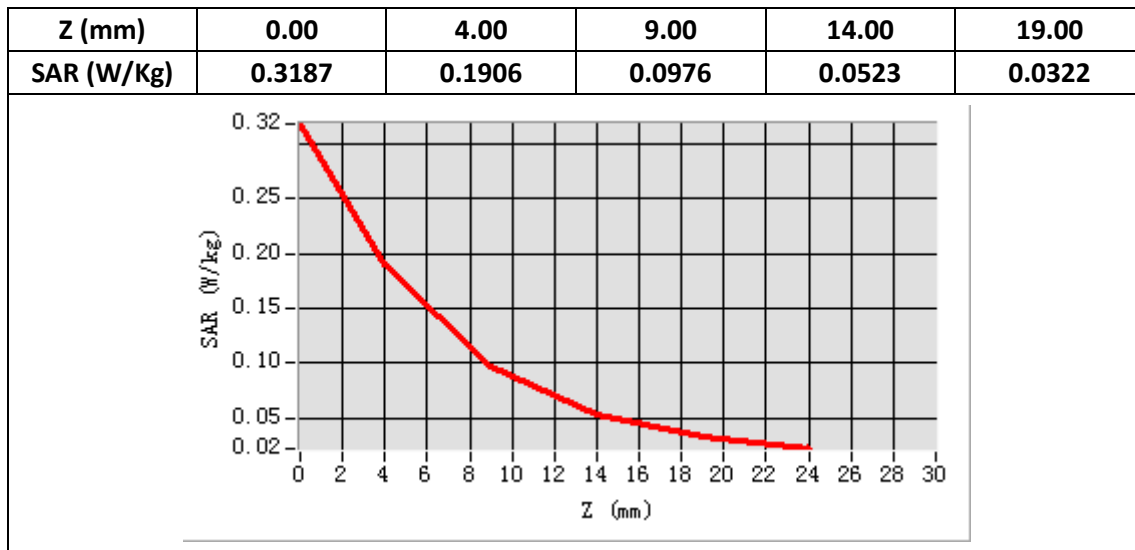
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2437
Relative permittivity (real part)	52.65
Relative permittivity (imaginary part)	14.18
Conductivity (S/m)	1.93
Variation (%)	-2.10
ConvF:	2.46



Maximum location: X=-15.00 Y=39.00

SAR Peak: 0.32 W/kg

SAR 10g (W/Kg)	0.092349
SAR 1g (W/Kg)	0.178554



Plot 29: BT3.0 GFSK, Left Cheek, High

Type: Phone measurement

Date of measurement: 04/20/2019

Measurement duration: 22 minutes 33 seconds

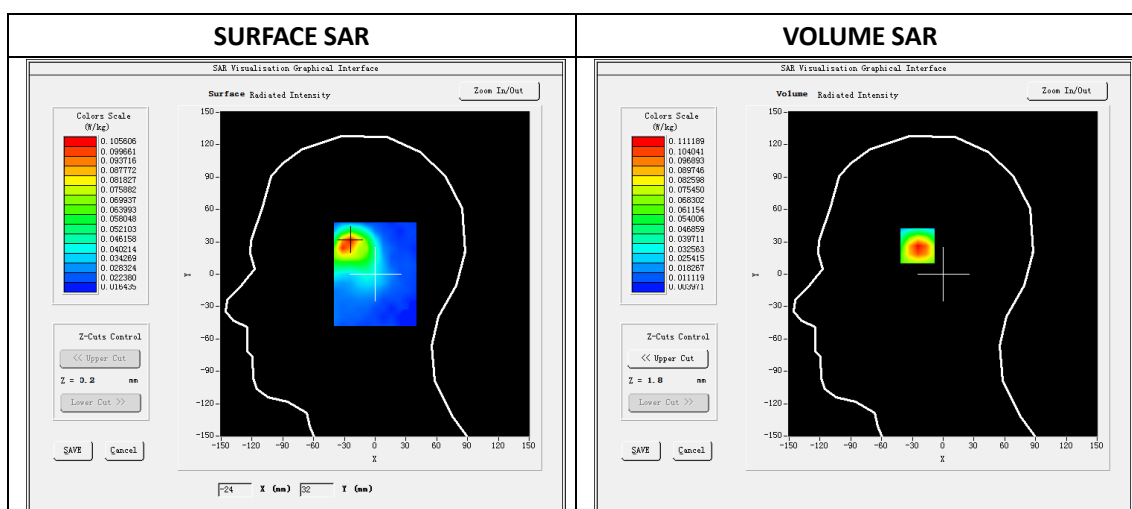
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=5mm,dy=5mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Left Cheek
Band	BT3.0
Channels	78
Signal	GFSK (Duty cycle: 1:1)

B. SAR Measurement Results

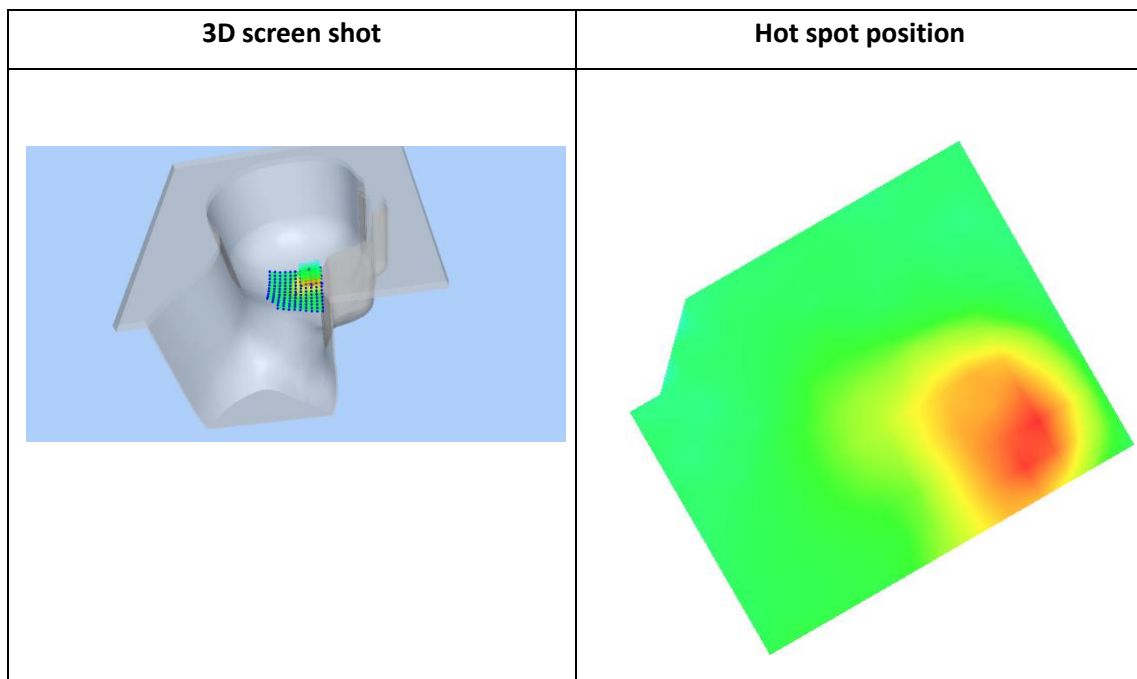
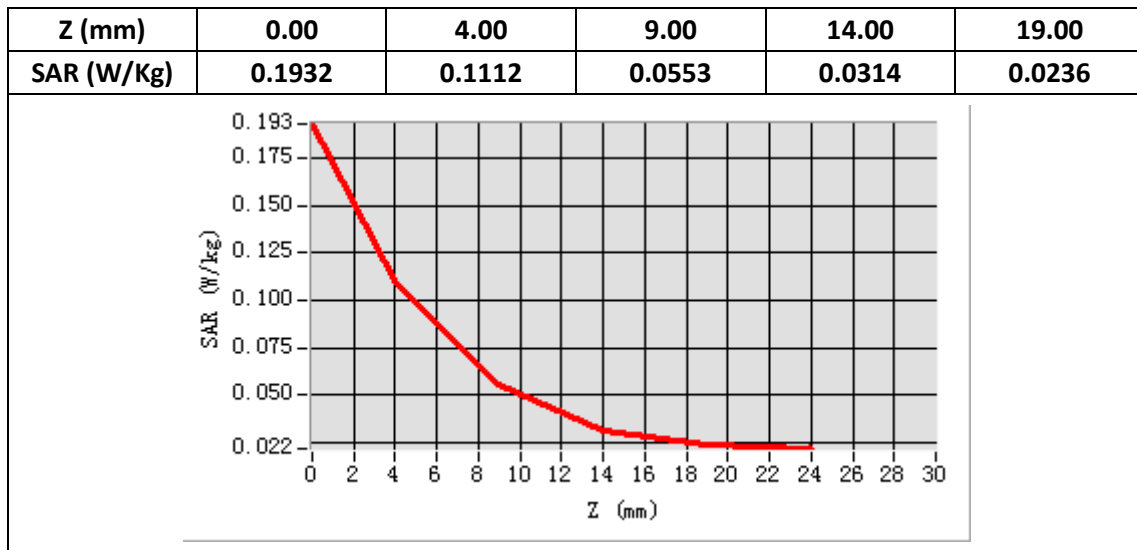
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2480
Relative permittivity (real part)	39.12
Relative permittivity (imaginary part)	13.71
Conductivity (S/m)	1.98
Variation (%)	-4.50
ConvF:	2.35



Maximum location: X=-25.00 Y=30.00

SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.059324
SAR 1g (W/Kg)	0.113070



Plot 30: BT3.0 GFSK, Back,High, 10mm

Type: Phone measurement

Date of measurement: 04/20/2019

Measurement duration: 22 minutes 01 seconds

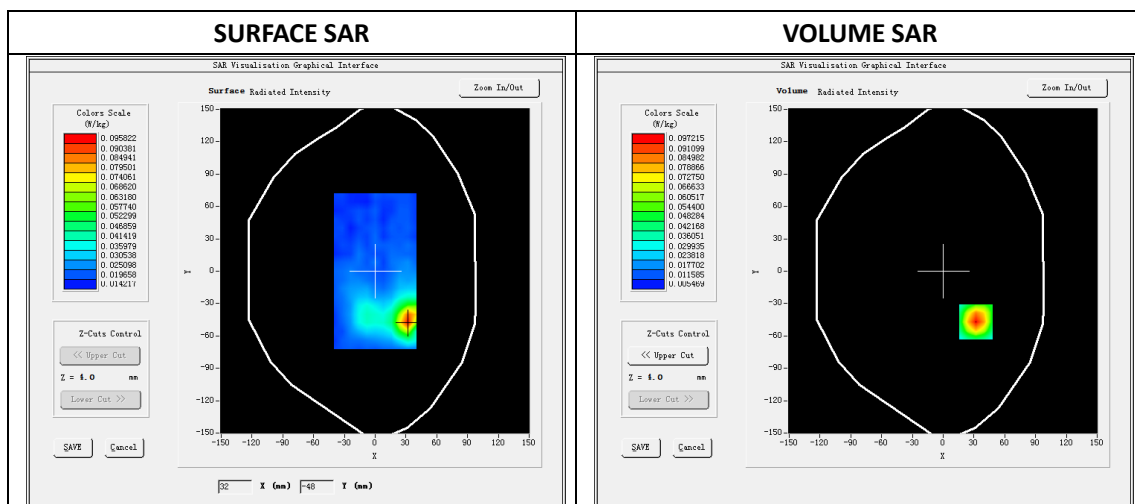
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=5mm,dy=5mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Back
Band	BT3.0
Channels	78
Signal	GFSK (Duty cycle: 1:1)

B. SAR Measurement Results

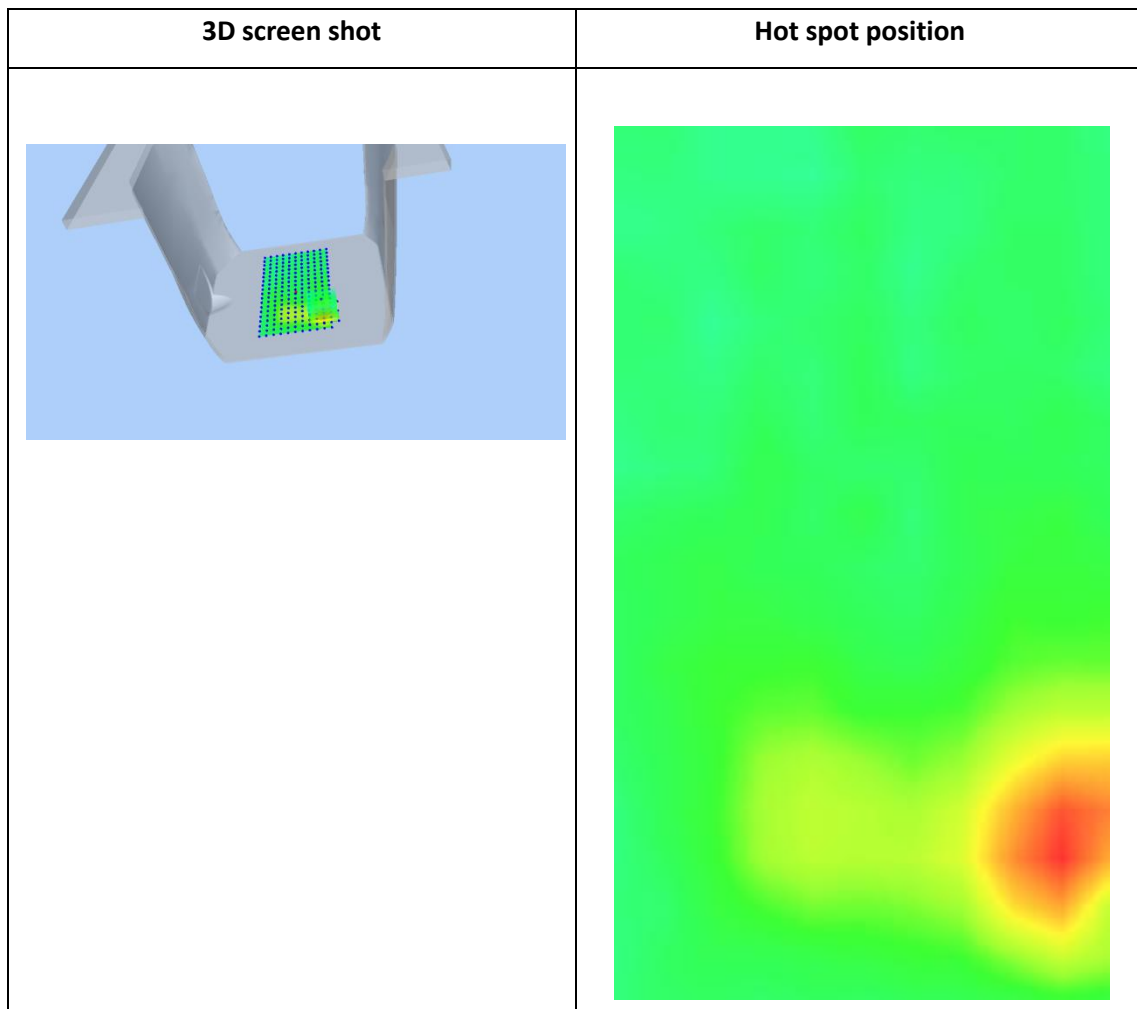
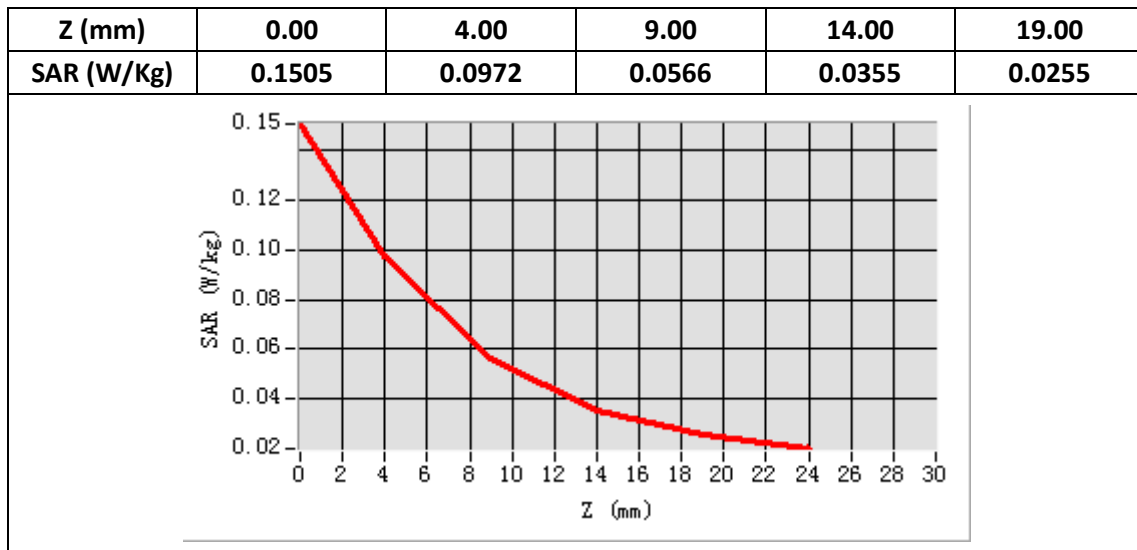
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	2480
Relative permittivity (real part)	39.12
Relative permittivity (imaginary part)	13.71
Conductivity (S/m)	1.98
Variation (%)	-4.70
ConvF:	2.43



Maximum location: X=32.00 Y=-47.00

SAR Peak: 0.15 W/kg

SAR 10g (W/Kg)	0.052203
SAR 1g (W/Kg)	0.096127



Plot 31: WIFI 5G 802.11ac(40MHZ), Left Cheek

Type: Phone measurement

Date of measurement: 04/21/2019

Measurement duration: 22 minutes 19 seconds

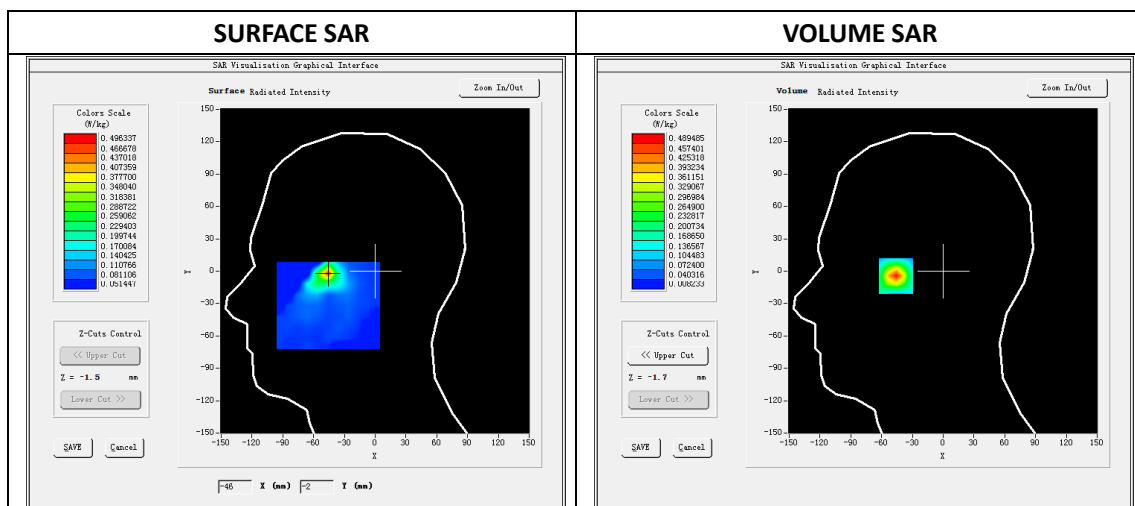
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=4mm,dy=4mm
ZoomScan	7x7x12,dx=4m, dy=4mm, dz=2mm
Phantom	Validation plane
Device Position	Left Cheek
Band	WIFI 5G
Channels	38
Signal	OFDM (Duty cycle: 1:1)

B. SAR Measurement Results

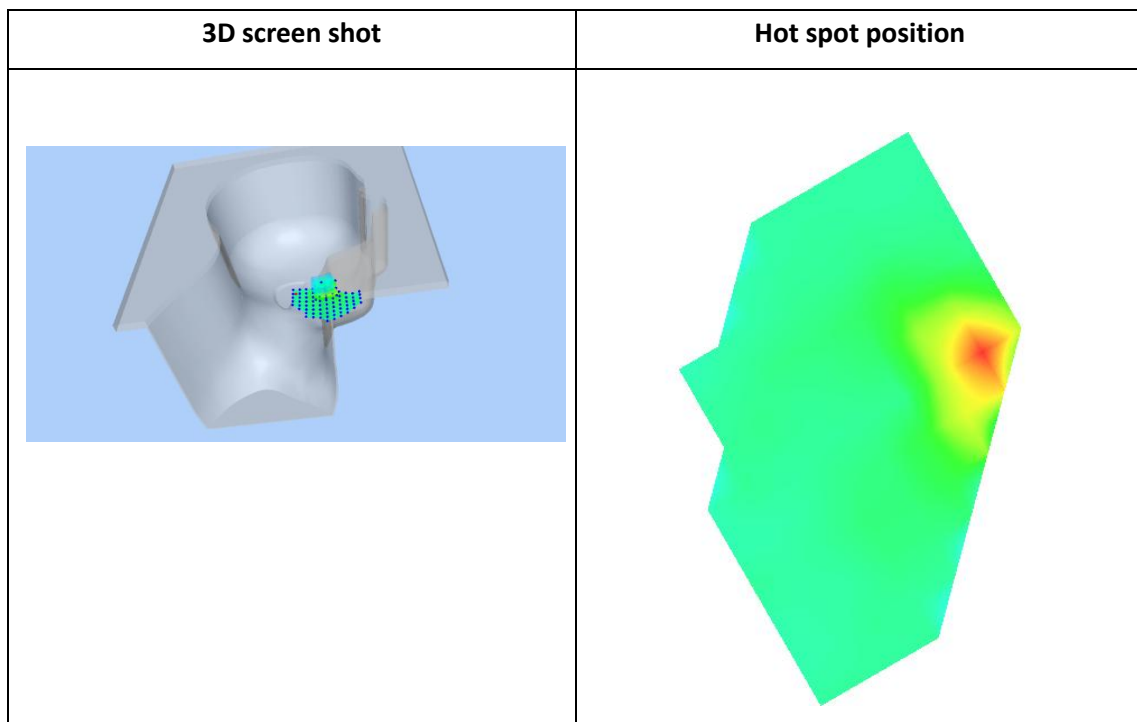
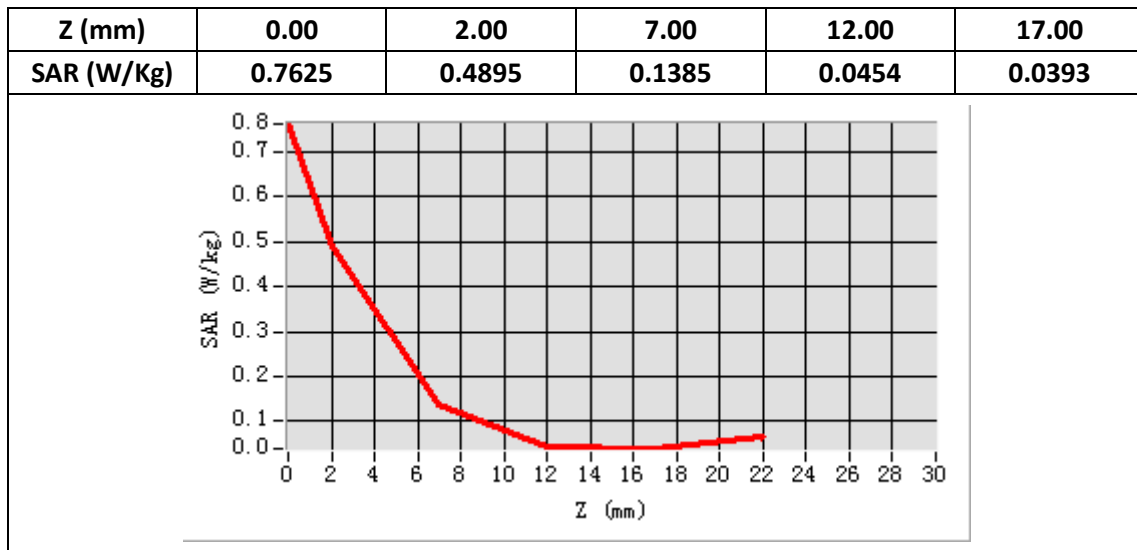
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	5190
Relative permittivity (real part)	36.22
Relative permittivity (imaginary part)	15.65
Conductivity (S/m)	4.52
Variation (%)	-4.20
ConvF:	2.15



Maximum location: X=-46.00 Y=-2.00

SAR Peak: 1.14 W/kg

SAR 10g (W/Kg)	0.187833
SAR 1g (W/Kg)	0.462288



Plot 32: WIFI 5G 802.11ac(40MHZ), Back , 10mm

Type: Phone measurement

Date of measurement: 04/21/2019

Measurement duration: 22 minutes 07 seconds

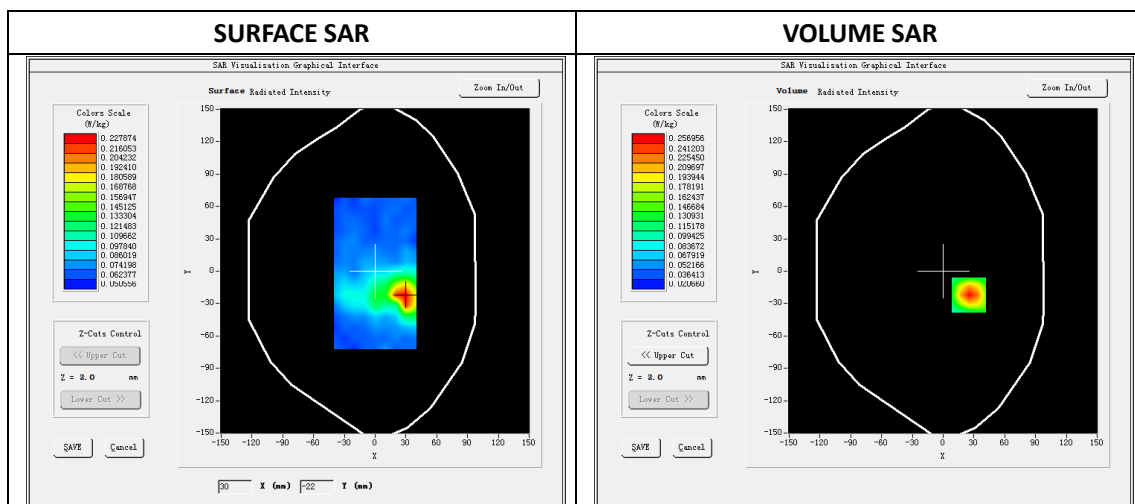
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=4mm,dy=4mm
ZoomScan	7x7x12,dx=4m, dy=4mm, dz=2mm
Phantom	Validation plane
Device Position	Back
Band	WIFI 5G
Channels	38
Signal	OFDM (Duty cycle: 1:1)

B. SAR Measurement Results

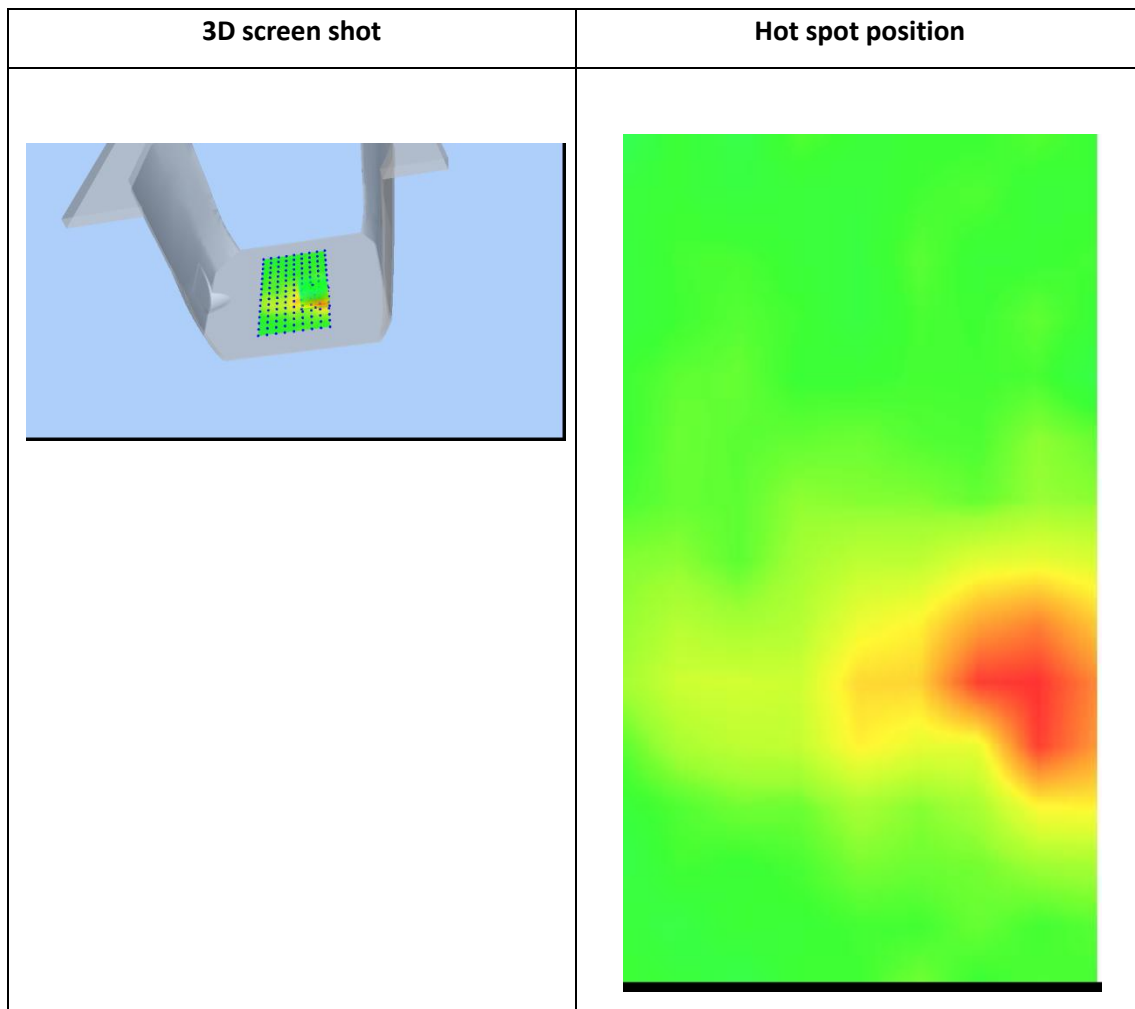
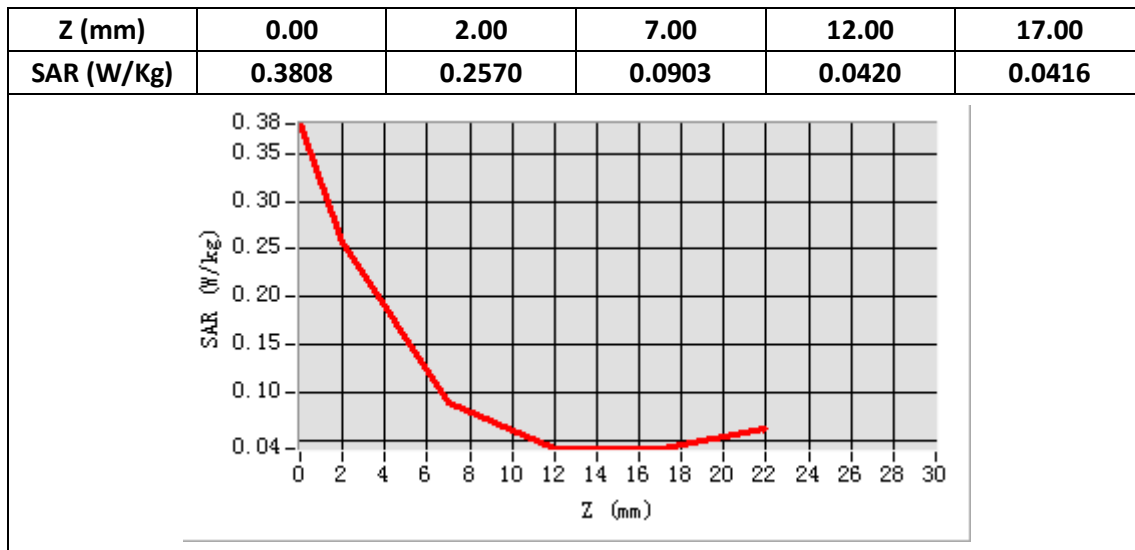
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	5190
Relative permittivity (real part)	49.33
Relative permittivity (imaginary part)	17.72
Conductivity (S/m)	5.12
Variation (%)	-3.39
ConvF:	2.21



Maximum location: X=25.00 Y=-22.00

SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.099198
SAR 1g (W/Kg)	0.178230



Plot 33: WIFI 5G 802.11ac(40MHZ), Left Cheek

Type: Phone measurement

Date of measurement: 04/22/2019

Measurement duration: 22 minutes 47 seconds

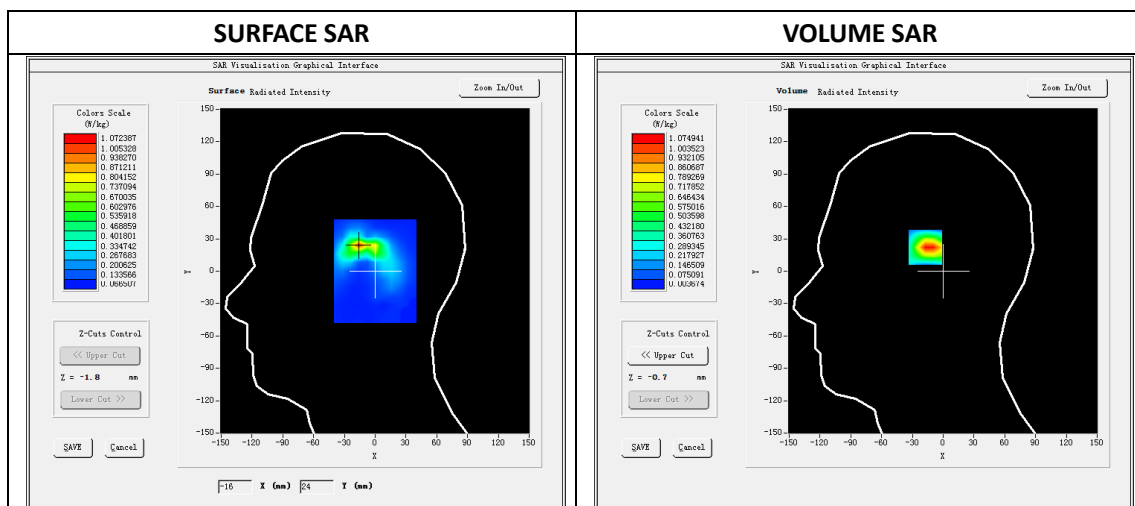
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=4mm,dy=4mm
ZoomScan	7x7x12,dx=4m, dy=4mm, dz=2mm
Phantom	Validation plane
Device Position	Left Cheek
Band	WIFI 5G
Channels	155
Signal	OFDM (Duty cycle: 1:1)

B. SAR Measurement Results

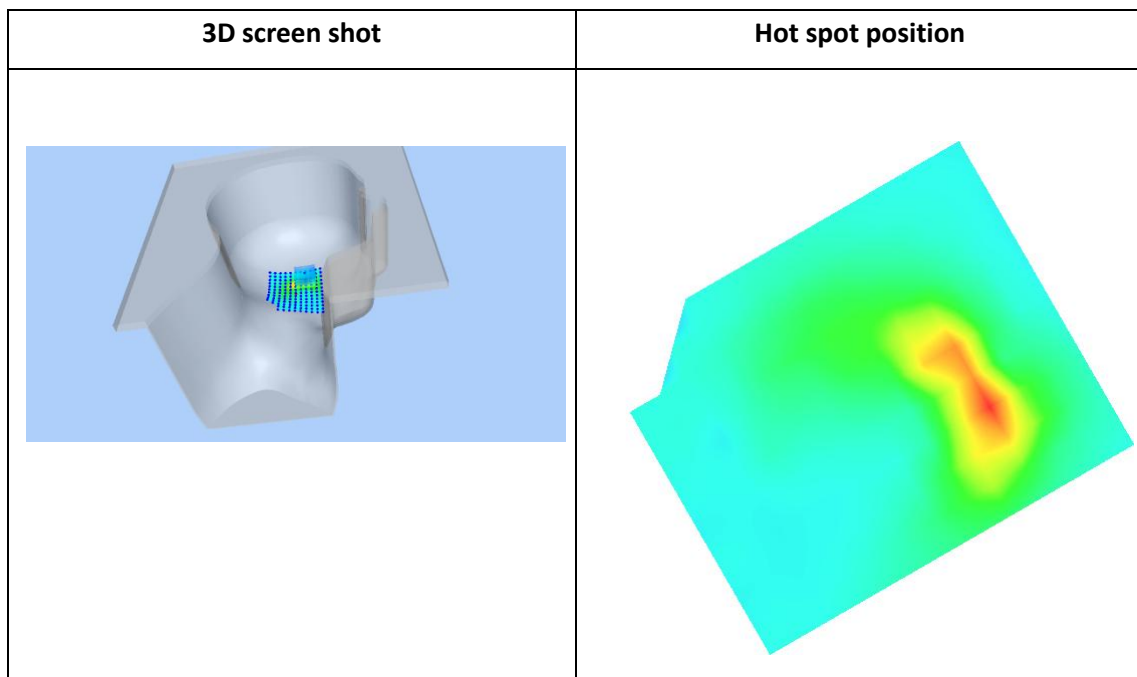
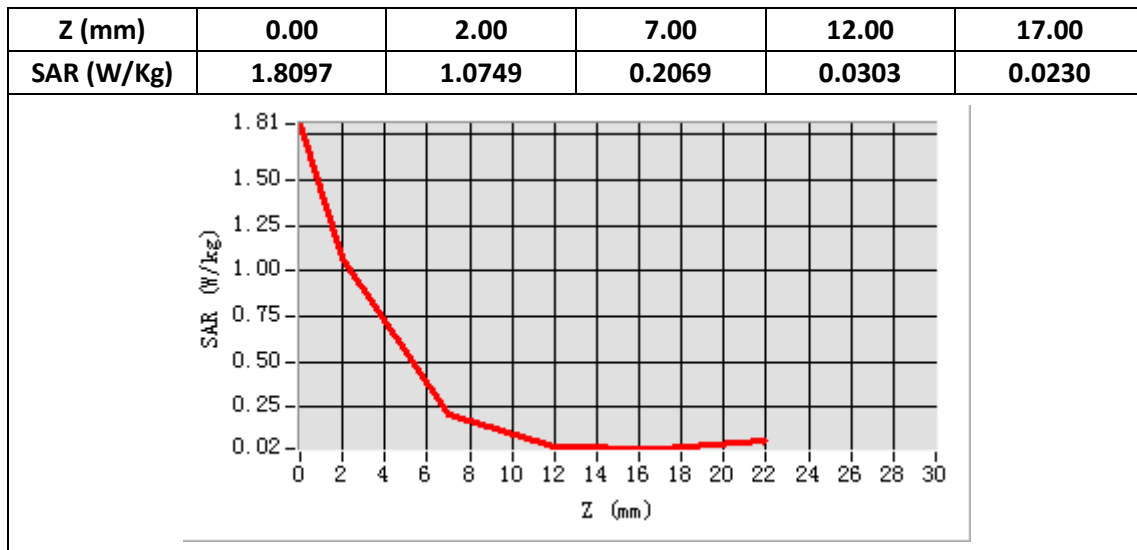
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	5755
Relative permittivity (real part)	35.20
Relative permittivity (imaginary part)	16.29
Conductivity (S/m)	5.25
Variation (%)	-3.51
ConvF:	2.19



Maximum location: X=-16.00 Y=24.00

SAR Peak: 2.90 W/kg

SAR 10g (W/Kg)	0.420363
SAR 1g (W/Kg)	1.111464



Plot 34: WIFI 5G 802.11ac(40MHZ), Back , 10mm

Type: Phone measurement

Date of measurement: 04/22/2019

Measurement duration: 22 minutes 51 seconds

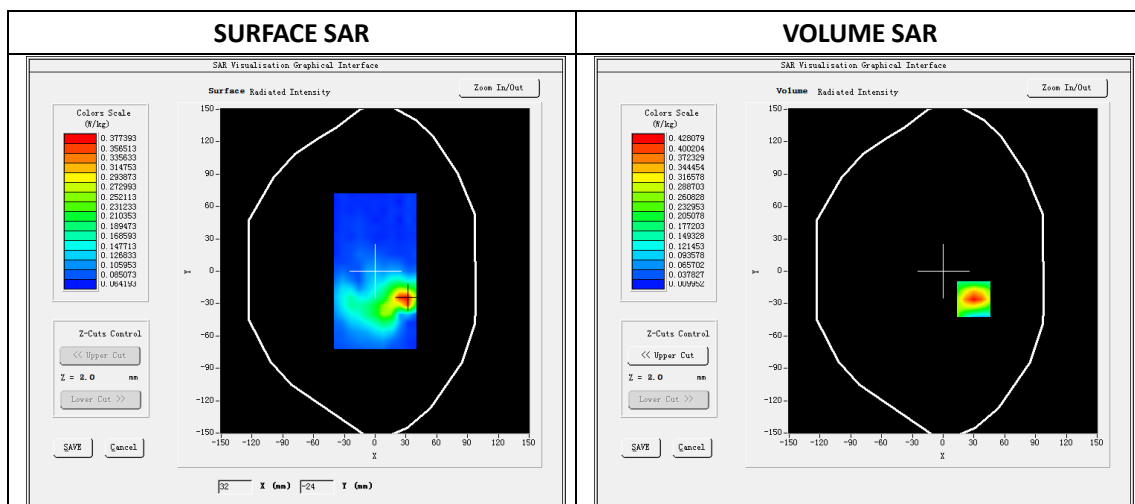
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=4mm,dy=4mm
ZoomScan	7x7x12,dx=4m, dy=4mm, dz=2mm
Phantom	Validation plane
Device Position	Back
Band	WIFI 5G
Channels	155
Signal	OFDM (Duty cycle: 1:1)

B. SAR Measurement Results

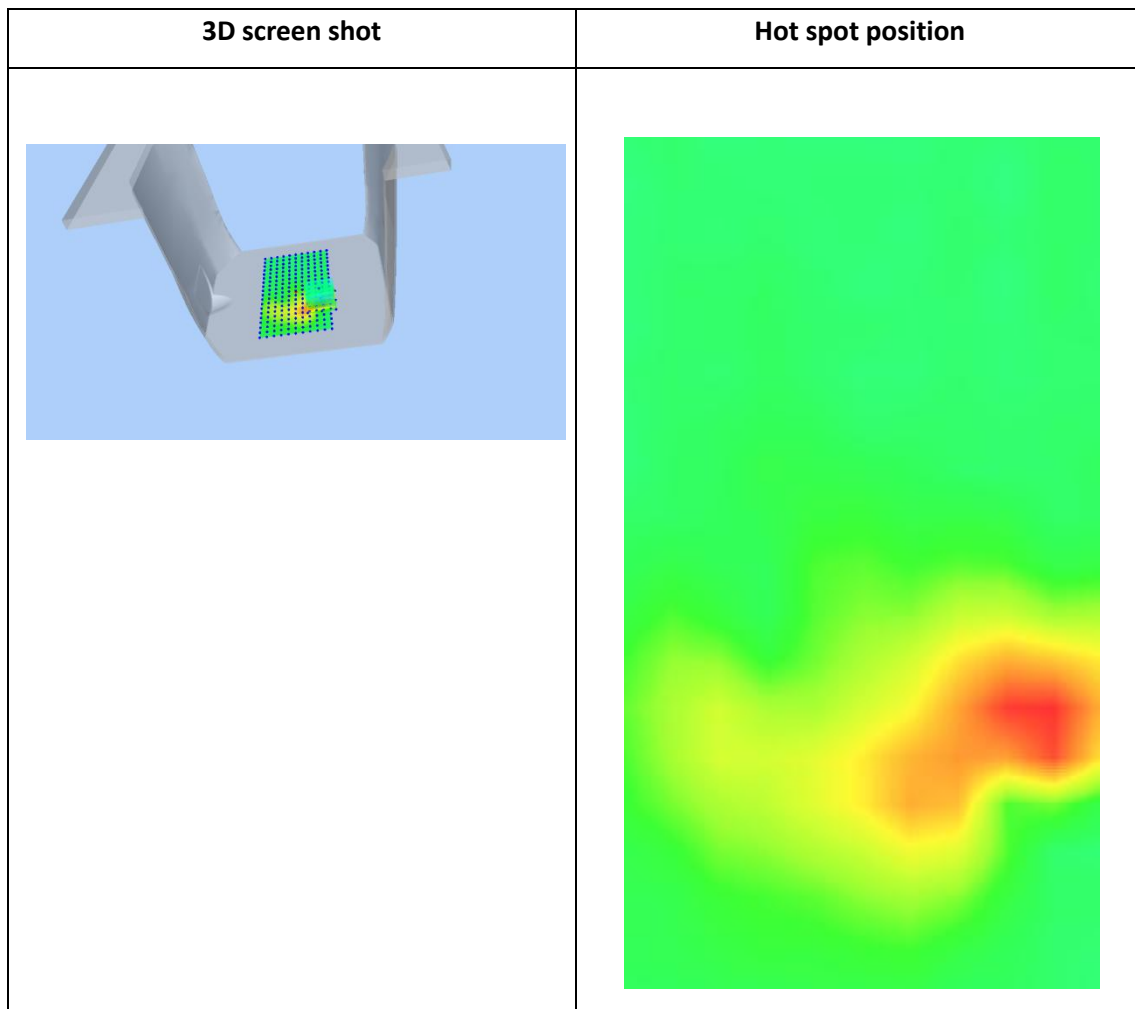
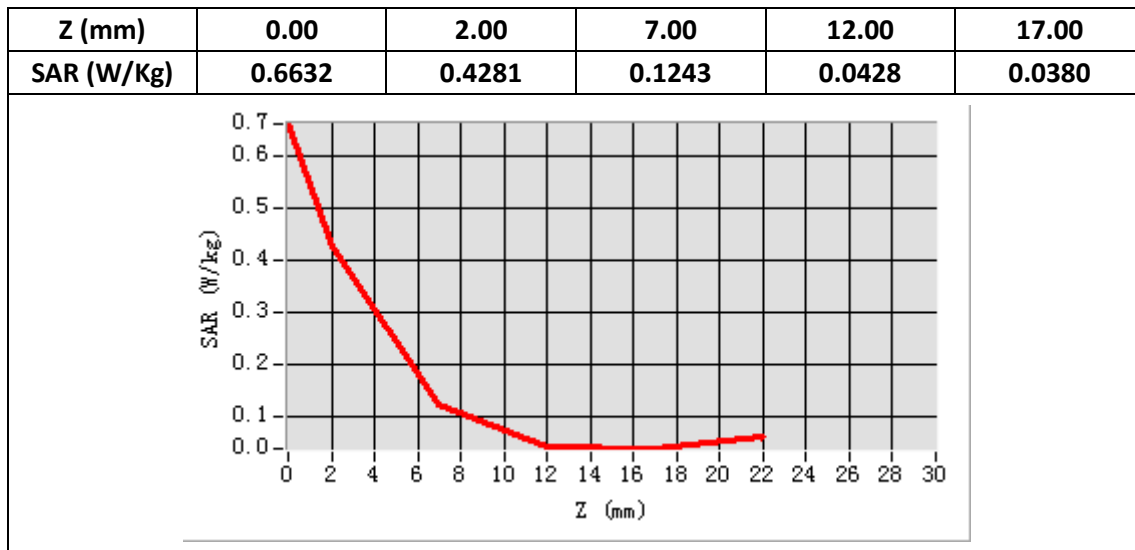
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	5755
Relative permittivity (real part)	48.15
Relative permittivity (imaginary part)	18.28
Conductivity (S/m)	5.89
Variation (%)	0.90
ConvF:	2.26



Maximum location: X=30.00 Y=-26.00

SAR Peak: 0.68 W/kg

SAR 10g (W/Kg)	0.135668
SAR 1g (W/Kg)	0.284263



Plot 35: LTE Band 7 CA, 20MHz+20MHz, Left Cheek , Middle

Type: Phone measurement

Date of measurement: 04/30/2019

Measurement duration: 22 minutes 01 seconds

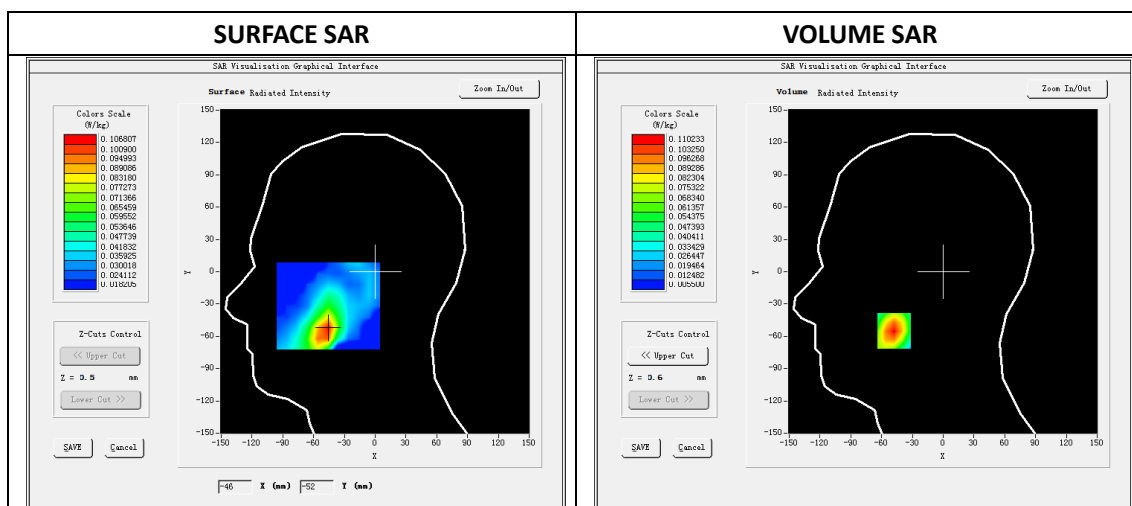
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Left Cheek
Band	LTE Band 7
Channels	Middle
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

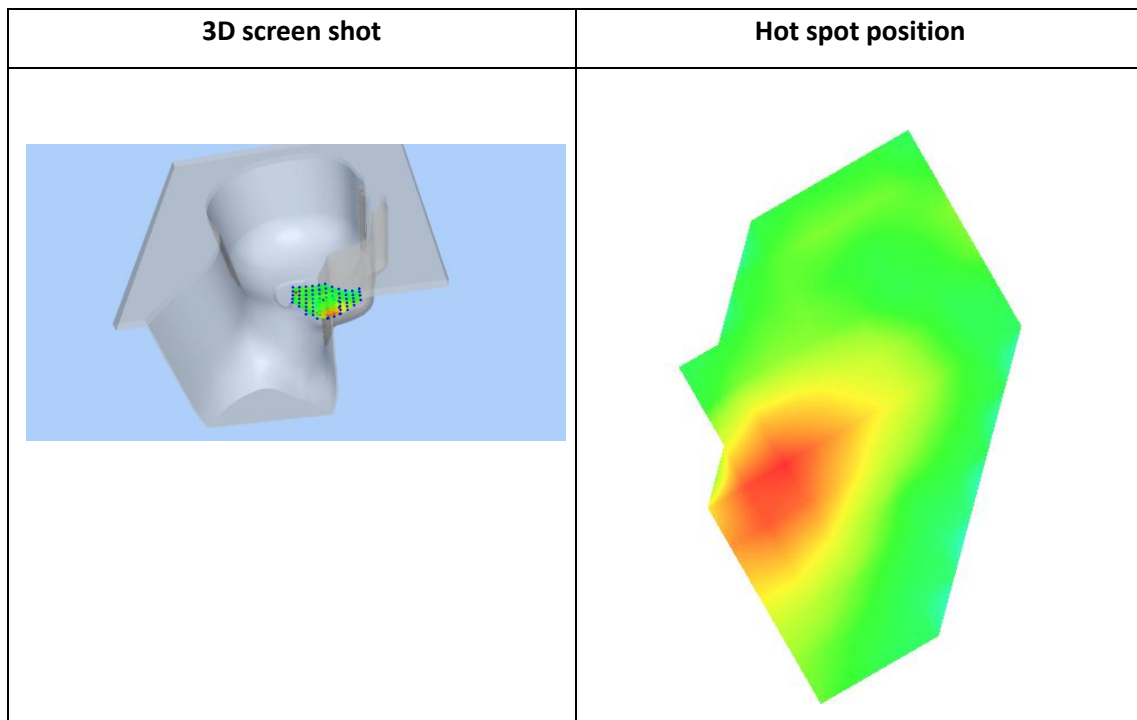
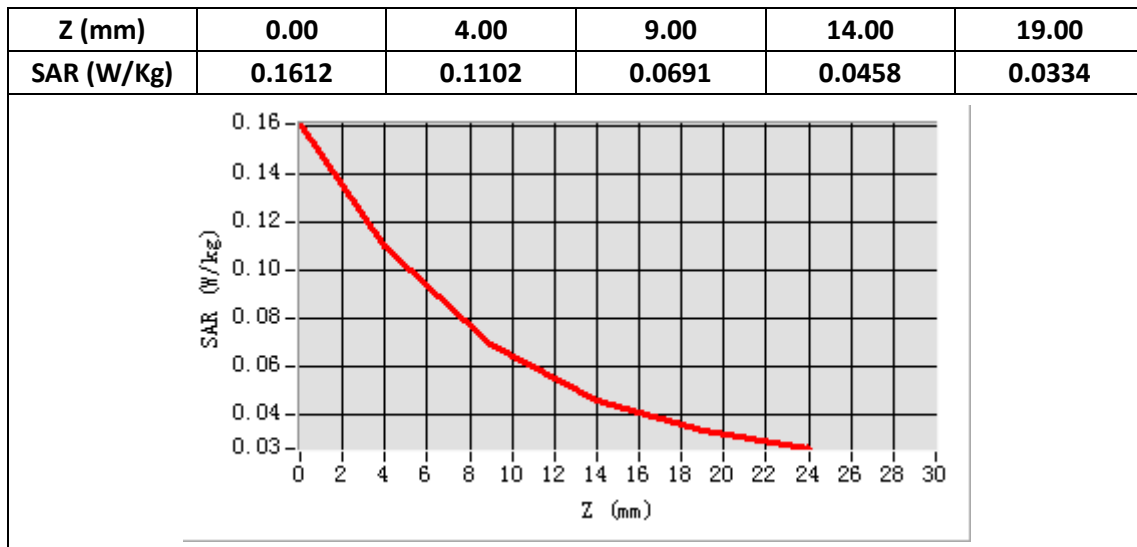
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	Middle
Relative permittivity (real part)	39.08
Relative permittivity (imaginary part)	13.78
Conductivity (S/m)	1.99
Variation (%)	-3.47
ConvF:	2.35



Maximum location: X=-48.00, Y=-55.00

SAR Peak: 0.16W/kg

SAR 10g (W/Kg)	0.061984
SAR 1g (W/Kg)	0.103490



Plot 36: LTE Band7 CA, 20MHz+20MHz, Back Middle,10mm

Type: Phone measurement

Date of measurement: 04/30/2019

Measurement duration: 22 minutes 43 seconds

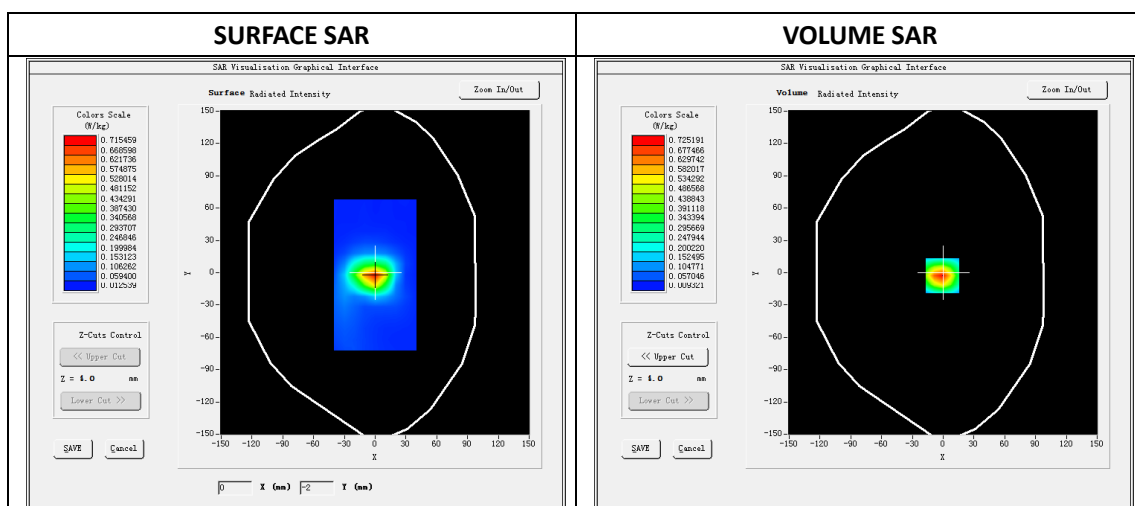
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Back
Band	LTE Band 7
Channels	Middle
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

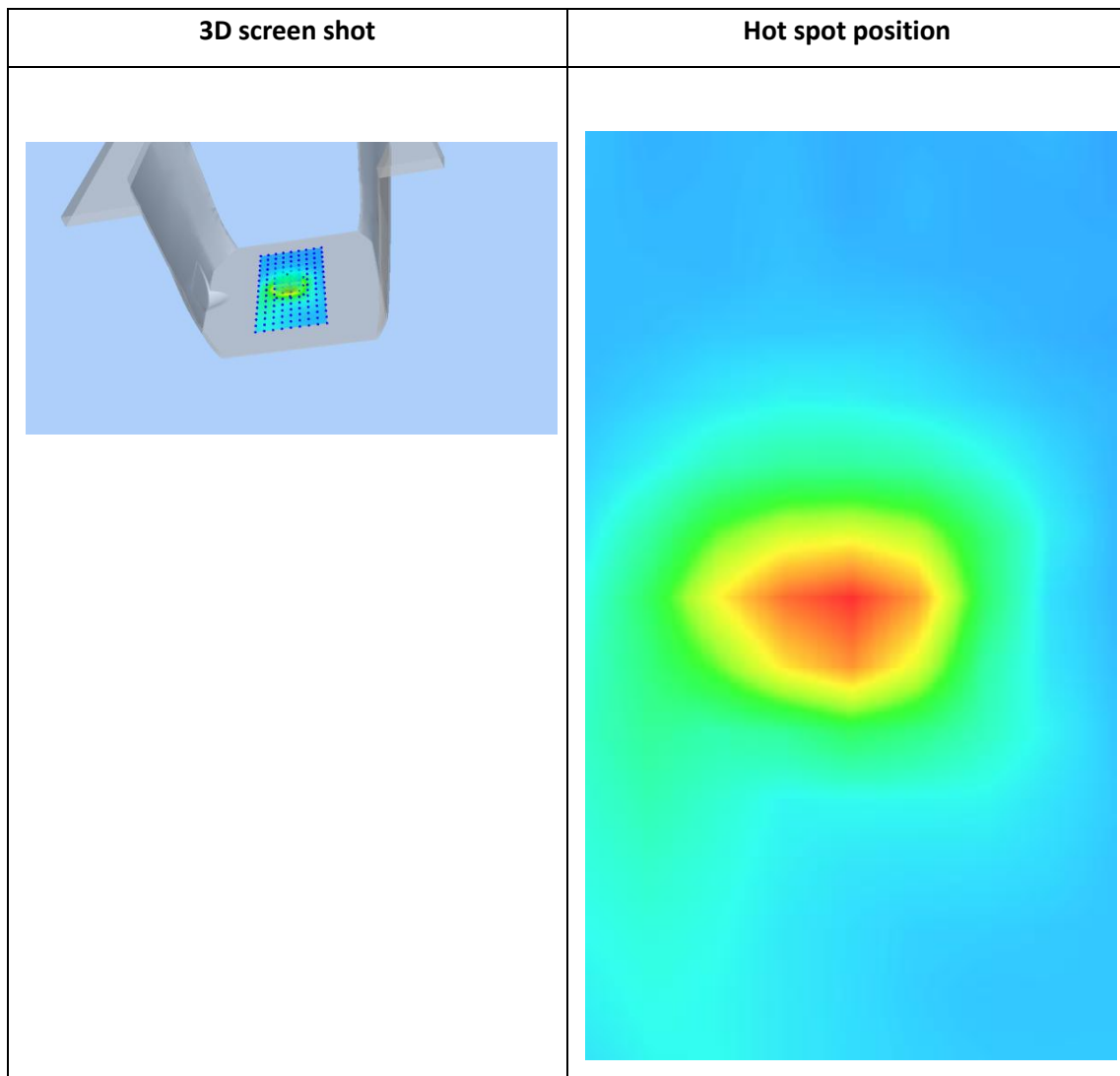
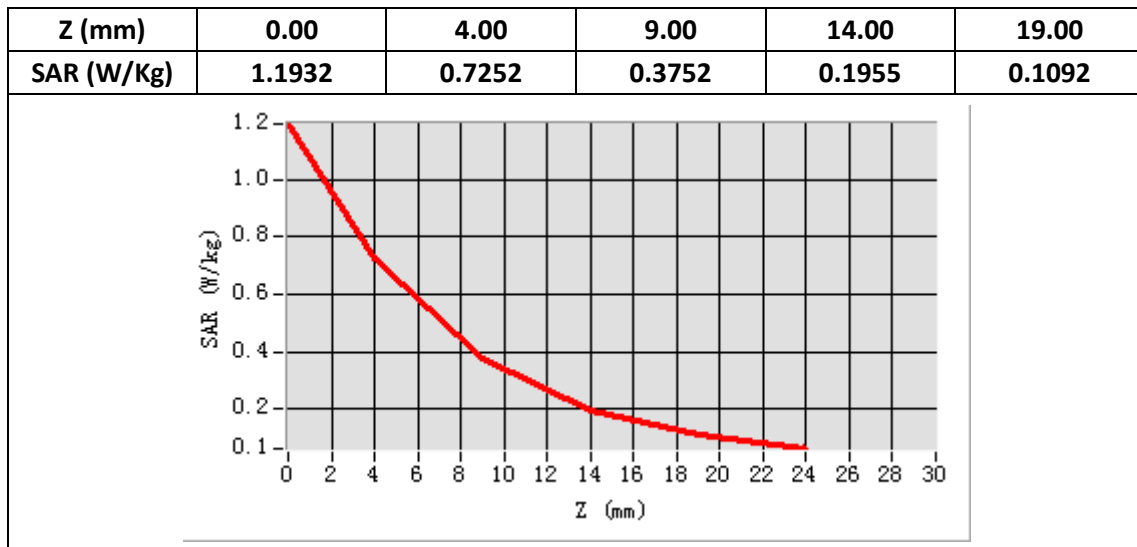
E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	Middle
Relative permittivity (real part)	52.25
Relative permittivity (imaginary part)	14.82
Conductivity (S/m)	2.14
Variation (%)	-1.02
ConvF:	2.43



Maximum location: X=-1.00, Y=-3.00

SAR Peak: 1.20W/kg

SAR 10g (W/Kg)	0.321017
SAR 1g (W/Kg)	0.666421



Plot 37: LTE Band7 CA, 20MHz+20MHz, Edge C Middle,10mm

Type: Phone measurement

Date of measurement: 04/30/2019

Measurement duration: 22 minutes 57 seconds

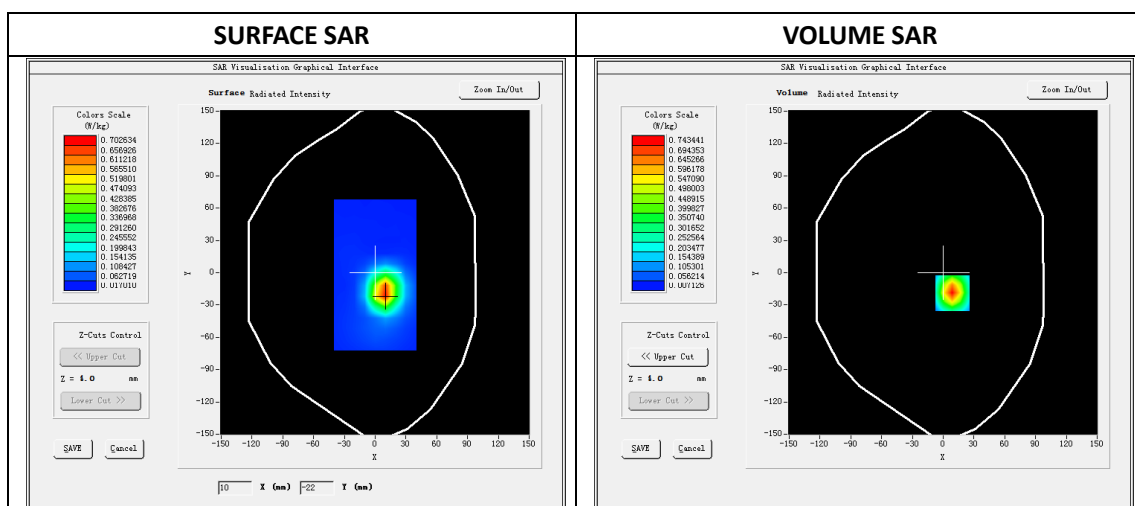
Mobile Phone IMEI number: --

A. Experimental conditions.

Area Scan	dx=8mm dy=8mm
ZoomScan	7x7x8,dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Edge C
Band	LTE Band 7
Channels	Middle
Signal	LTE (Duty cycle: 1:1)

B. SAR Measurement Results

E-Field Probe	SATIMO SN_27/15_EPG0261
Frequency (MHz)	Middle
Relative permittivity (real part)	52.25
Relative permittivity (imaginary part)	14.82
Conductivity (S/m)	2.14
Variation (%)	-2.37
ConvF:	2.43



Maximum location: X=9.00, Y=-19.00

SAR Peak: 1.22W/kg

SAR 10g (W/Kg)	0.324431
SAR 1g (W/Kg)	0.680395

